

Using NHSN for MRSA Bacteremia and *C. difficile* LabID Event Reporting

Angela M Anttila, PhD, MSN, NP-C, CIC

Happy Day

Thursday, June 6, 2013

Welcome New IP - Suzie Mustb

Incredible as it may seem, Happy Day Hospital finally hires an Infection Preventionist after 10 long months of vacancy. Suzie Mustbcrazy is brand new to the infection prevention field. Don't let this fool you though, she brings 10 years of hospital oncology experience. We are excited to have Mrs. Mustbcrazy and welcome her as the sole IP to our 400 bed hospital! Her first task will

be to get our hospital caught up on CMS reporting requirements for MRSA Bacteremia and C. difficile LabID Event reporting!! She will receive top-notch IP training via webcast from this years APIC conference. Of course, her follow-up training will come directly from the CDC/NHSN help-desk and training website (as soon as we find the website).

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First Day on the Job

*HELP!
Where
do I get
started?*



PRIORITIZE!



Online Resources – NHSN Protocols

<http://www.cdc.gov/nhsn/acute-care-hospital/cdiff-mrsa/index.html>

- ❑ **Multidrug-Resistant Organism & *Clostridium difficile* Infection (MDRO and CDI) Module**
- ❑ **“One Stop Shopping”**
 - On-Demand trainings
 - NHSN protocols
 - Data collection forms & instructions
 - CDC location descriptions and guidance
 - CMS-related documents
 - Analysis guides
 - Frequently Asked Questions

Why is surveillance
for MRSA bacteremia
and *C. difficile*
important?



- *C. difficile* infections contribute to approximately 14,000 deaths/year
 - ≈ 90% elderly
- Antibiotic use and healthcare exposure are two of the greatest risk factors
- Despite a slight decrease in the percentage of *S. aureus* resistant to oxacillin (MRSA), statistics indicate that MRSA continues to dominate among pathogens responsible for HAIs

Centers for Disease Control and Prevention
MMWR
 Early Release / Vol. 61
 Morbidity and Mortality Weekly Report
 March 6, 2012

Vital Signs: Preventing *Clostridium difficile* Infections

Abstract

Background: *Clostridium difficile* infection (CDI) is a common and sometimes fatal health-care-associated infection; the incidence, deaths, and excess health-care costs resulting from CDIs in hospitalized patients are all at historic highs. Meanwhile, the contribution of nonhospital health-care exposures to the overall burden of CDI and the ability of consumers to prevent

Making Health Care Safer
 Stopping *C. difficile* Infections

Vital signs
 March 2012

On this Page

- Introduction
- Problem
- Who's at Risk?
- What Can Be Done
- Science Behind this Issue
- Related Links
- Social Media
- Read Associated MMWR

People getting medical care can catch serious infections called **health care-associated infections (HAIs)**. While most types of HAIs are declining, one – caused by the germ *C. difficile* – remains at historically high levels. *C. difficile* causes diarrhea linked to 14,000 American deaths each year. Those most at risk are people, especially older adults, who take antibiotics and also get medical care. When a person takes antibiotics, good germs that protect against infection are destroyed for several months. During this time, patients can get sick from *C. difficile* picked up from contaminated surfaces or soiled from a

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY JANUARY 2013, VOL. 34, NO. 1

NHSN UPDATE

Antimicrobial-Resistant Pathogens Associated with Healthcare-Associated Infections: Summary of Data Reported to the National Healthcare Safety Network at the Centers for Disease Control and Prevention, 2009–2010

Dawn M. Sievert, PhD¹; Philip Ricks, PhD¹; Jonathan R. Edwards, MS¹; Amy Schneider, MPH¹; Jean Patel, PhD¹; Arjun Srinivasan, MD²; Alex Kallen, MD³; Brandi Limbago, PhD⁴; Scott Fridkin, MD⁵
 for the National Healthcare Safety Network (NHSN) Team and Participating NHSN Facilities

OBJECTIVE. To describe antimicrobial resistance patterns for healthcare-associated infections (HAIs) reported to the National Healthcare Safety Network (NHSN) during 2009–2010.

METHODS. Central line-associated bloodstream infections, catheter-associated urinary tract infections, ventilator-associated pneumonia, and surgical site infections were included. Pooled mean proportions of isolates interpreted as resistant (or, in some cases, nonsusceptible) to selected antimicrobial agents were calculated by type of HAI and compared to historical data.

RESULTS. Overall, 2,039 hospitals reported 1 or more HAIs: 1,749 (86%) were general acute care hospitals, and 1,143 (56%) had fewer than 200 beds. There were 69,475 HAIs and 81,139 pathogens reported. Eight pathogen groups accounted for about 80% of reported pathogens: *Staphylococcus aureus* (16%), *Enterococcus* spp. (14%), *Escherichia coli* (12%), coagulase-negative staphylococci (11%), *Candida* spp. (9%), *Klebsiella pneumoniae* (and *Klebsiella oxytoca*) (8%), *Pseudomonas aeruginosa* (8%), and *Enterobacter* spp. (5%). The percentage of resistance was similar to that reported in the previous 2-year period, with a slight decrease in the percentage of *S. aureus* resistant to oxacillins (MRSA). Nearly 20% of pathogens reported from all HAIs were the following multidrug-resistant phenotypes: MRSA (8.5%); vancomycin-resistant *Enterococcus* (3%); extended-spectrum cephalosporin-resistant *K. pneumoniae* and *K. oxytoca* (2%), *E. coli* (2%), and *Enterobacter* spp. (2%); and carbapenem-resistant *P. aeruginosa* (2%), *K. pneumoniae/oxytoca* (<1%), *E. coli* (<1%), and *Enterobacter* spp. (<1%). Among facilities reporting HAIs with 1 of the above gram-negative bacteria, 20%–40% reported at least 1 with the resistant phenotype.

CONCLUSION. While the proportion of resistant isolates did not substantially change from that in the previous 2 years, multidrug-resistant gram-negative phenotypes were reported from a moderate proportion of facilities.

Infect Control Hosp Epidemiol 2013;34(1):1–14

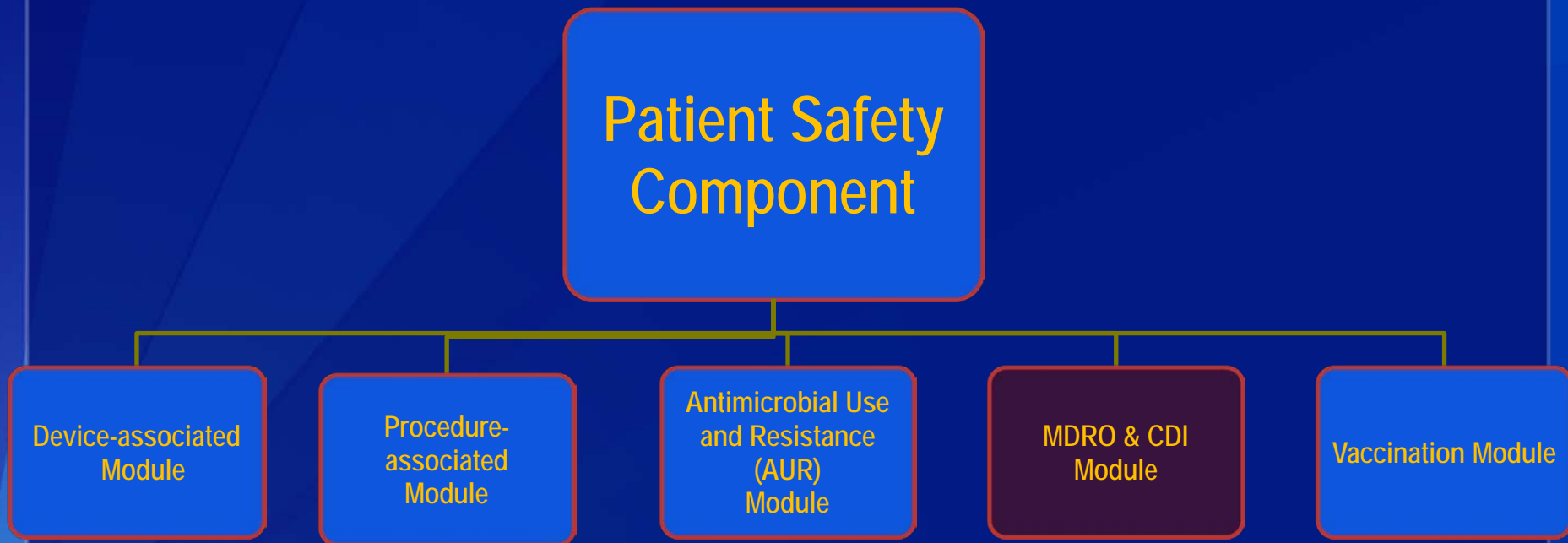
I want to learn
more about reporting
LabID Events using the
MDRO and CDI
Module...



Overview of MDRO and CDI Module

Patient Safety Component

5 Modules



Reporting Options in MDRO & CDI Module

Active participants must choose main reporting method(s)

Infection Surveillance

LabID Event Reporting

additional options then become available

Prevention Process Measures:

- Adherence to Hand Hygiene
- Adherence to Gown and Glove Use
- Adherence to Active Surveillance Testing (for MRSA /VRE Only)

Outcome Measures:

- AST Prevalence / Incidence (for MRSA/VRE Only)

**Which reporting
option do I choose?**





It depends on your program objectives, such as:

- **Participation in CMS Inpatient Quality Reporting (IQR) Program**
 - **Assess effectiveness of interventions**
 - **Organism specific surveillance using NHSN HAI criteria**
- And so on.....**

My facility does
participate in the CMS
IQR Program, how do I get
us in compliance with the
reporting requirements for
MRSA Bacteremia &
C. difficile LabID
Events?



For Today, Our Goals Are:

- Understand requirements for MRSA bacteremia and *C. difficile* LabID Event reporting to CMS via NHSN.
- Understand MRSA bacteremia and *C. difficile* LabID Event definitions and protocols.
- Describe how to correctly enter MRSA bacteremia and *C. difficile* LabID data into NHSN.
- Tips for assuring compliance with CMS requirements for IQRP.



If participating in CMS Inpatient Quality Reporting (IQR) Program...

**Acute care hospitals must report
MRSA Bacteremia and *C. difficile*
LabID Events at Facility-wide
Inpatient (FacWideIN) level**

CMS

MRSA Bacteremia LabID Event

- ❖ **Organism:** Methicillin-Resistant *Staphylococcus aureus* (MRSA)
- ❖ **Specimen Source:** Blood isolates only
- ❖ **Data Collection:** CDC NHSN - MDRO/CDI Module (LabID Event)
- ❖ **Required Locations:** All inpatient locations. Referred to as facility-wide inpatient (FacWideIN)
- ❖ **Required Data:** Community-Onset (CO) and Healthcare-Onset (HO) MRSA Bacteremia LabID Events

CMS

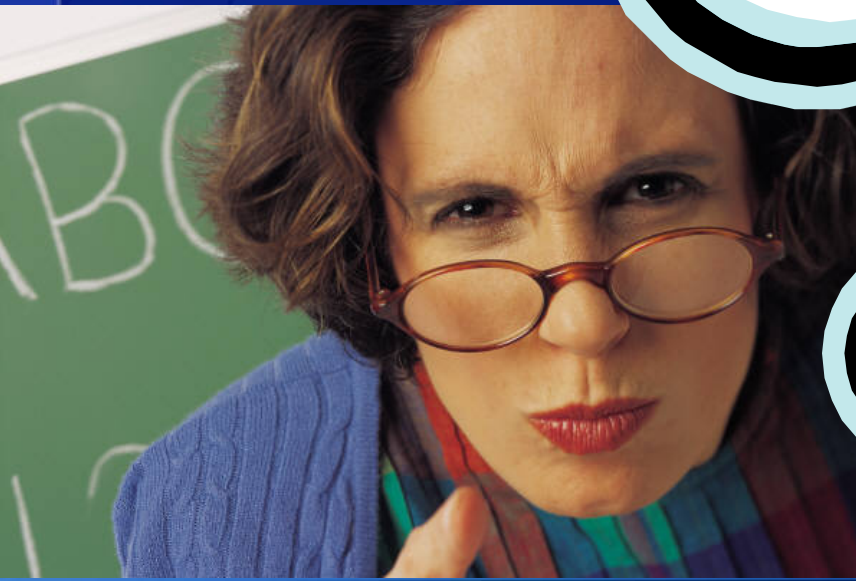
C. difficile LabID Event

- ❖ **Organism:** *Clostridium difficile* (*C. difficile*)
- ❖ **Specimen Source:** Loose stools only
- ❖ **Data Collection:** CDC NHSN - MDRO/CDI Module (LabID Event)
- ❖ **Required Locations:** All inpatient locations (FacWideIN) minus NICU, SCN, or other Well Baby locations (e.g. Nurseries, babies in Labor, Delivery, Recovery , & Post-partum [LDRP])
- ❖ **Required Data:** Community-Onset (CO) and Healthcare-Onset (HO) *C. difficile* LabID Events

Do the CMS
requirements
apply to non acute
care facilities?

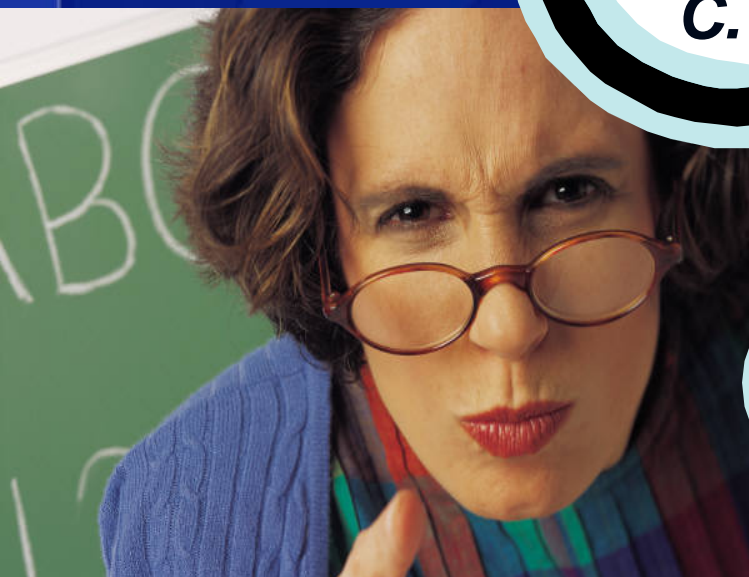


Beginning in 2013,
CMS reporting requirements
For facility-wide inpatient MRSA
Bacteremia and
***C. difficile* LabID Events are**
specific to
Acute Care Hospitals



There's MORE.....

January 2015,
Participating Long Term Care
Hospitals (*referred to as Long*
Term Acute Care Hospitals
***in NHSN*) will be required**
to report facility-wide inpatient
MRSA Bacteremia and
***C. difficile* LabID Events**





Our hospital
has an inpatient
rehabilitation facility (IRF)
on the second floor. For
FacWideIN reporting, should I
include LabID Events in the
IRF?

**In Most Cases
YES!!**

IRFs physically located in the acute care facility are treated as a “location” within the hospital and therefore are included in LabID Event reporting. An exception would be if the IRF is free-standing and/or follows independent policies and procedures and does not share patient care staff.



What information will
CDC/NHSN share with CMS?



- ❑ All in-plan FacWideIN healthcare facility-onset (HO) MRSA bacteremia and *C. difficile* LabID Event aggregate data from participating acute care hospitals.
- ❑ CDC will provide a standardized infection ratio (SIR) for each hospitals' FacWideIN HO MRSA bacteremia and *C. difficile* .
- ❑ Although the metric reported to CMS will be a HO SIR, the community-onset (CO) events and the admission prevalence of a hospital will play an important role in risk adjustment, and so both HO and CO LabID events must be reported into NHSN.

Risk Adjustment for Healthcare Facility-Onset *C. difficile* and MRSA Bacteremia Laboratory-identified Event Reporting in NHSN

Margaret A. Dudeck, MPH, CPH, Lindsey M. Weiner, MPH, Paul J. Malpiedi, MPH, Jonathan R. Edwards, MStat, Kelly D. Peterson, BBA, Dawn M. Sievert, PhD

Background

The Centers for Disease Control and Prevention (CDC) introduced the Multidrug-Resistant Organism and *Clostridium difficile* Infection (MDRO/CDI) Module in the National Healthcare Safety Network (NHSN) in March 2009 to enable reporting of CDI, methicillin-resistant *Staphylococcus aureus* (MRSA), and other MDROs. State reporting mandates beginning in 2009, coupled with reporting incentives that the Centers for Medicare and Medicaid Services (CMS) initiated in 2013, account for rapid uptake of the MDRO/CDI Module by acute care hospitals. Use of data from this Module for prevention, public reporting, and payment purposes places a premium on adherence to methodologically sound surveillance practices, including risk adjustment of proxy infection measures. This report describes the risk modeling that CDC applied to laboratory-identified (LabID) event CDI and MRSA bacteremia data submitted to NHSN, the results of which have been incorporated into the analysis options in the NHSN application.

Online Resources – CMS Related

<http://www.cdc.gov/nhsn/acute-care-hospital/cdiff-mrsa/index.html>

- ❑ Operational Guidance
- ❑ “How to Set Up NHSN Reporting for Facility-Wide Inpatient MRSA Bacteremia and *C. difficile* LabID events for the CMS Inpatient Quality Reporting Program”
- ❑ Helpful Tips
- ❑ Using the SIRs

Important Dates

- ❑ Data must be submitted monthly (within 30 days of the end of the month in which it is collected).
- ❑ For data to be shared with CMS, each quarter's data must be entered into NHSN no later than 4 ½ months after the end of the quarter.
 - E.g. Q1 (January-March) data must be entered into NHSN by August 15; Q2 by November 15; Q 3 by February 15 and Q4 by May 15.



I am not
familiar with
LabID Event
Reporting, can you
share more details?



LabID Event reporting allows laboratory testing data to be used without clinical evaluation of the patient, allowing for a much less labor intensive method to track *C. difficile* and MDROs, such as MRSA.

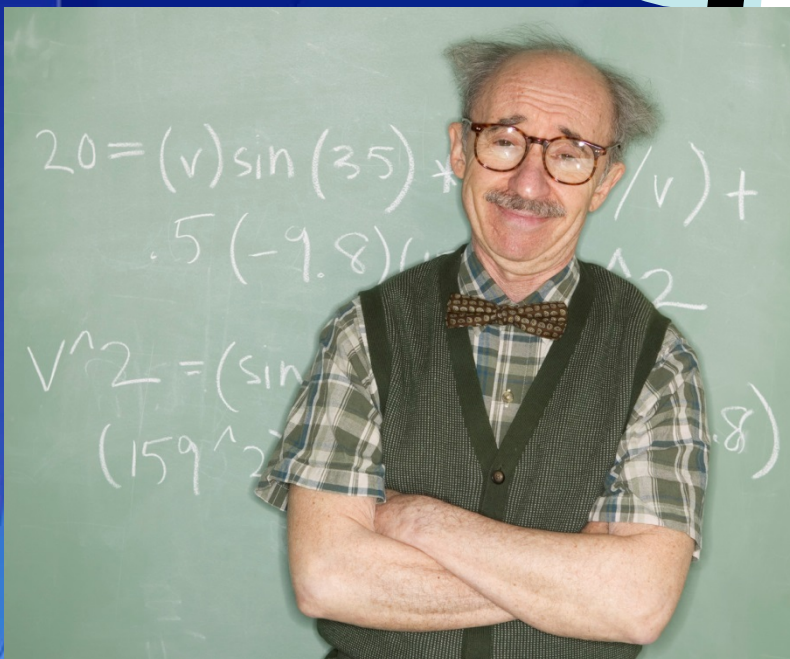
These provide **proxy** infection measures of **healthcare acquisition, exposure burden, and infection burden** based primarily on laboratory and limited admission data

This methodology seems much different than the HAI methodology I'm used to.



You are CORRECT!

**The methodologies utilized
in the identification of
healthcare-associated infections
and LabID Events are different
and one is independent
of the other.**



Advantages of LabID Event Reporting include.....

- **Objective laboratory-based metrics that allow the following without extensive chart review to:**
 - **Identify vulnerable patient populations**
 - **Estimate infection burden**
 - **Estimate exposure burden**
 - **Assess need for and effectiveness of interventions**
- **Standardized case definitions for surveillance increases comparability between clinical settings.**

Recommended metrics from the SHEA/HICPAC Position Paper (2008) were the basis for the MDRO and CDI Module

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY OCTOBER 2008, VOL. 29, NO. 10

SHEA/HICPAC POSITION PAPER

Recommendations for Metrics for Multidrug-Resistant Organisms in Healthcare Settings: SHEA/HICPAC Position Paper

Adam L. Cohen, MD, MPH; David Calfee, MD, MS; Scott K. Fridkin, MD; Susan S. Huang, MD, MPH;
John A. Jernigan, MD; Ebbing Lautenbach, MD, MPH, MSCE; Shannon Oriola, RN, CIC, COHN;
Keith M. Ramsey, MD; Cassandra D. Salgado, MD, MS; Robert A. Weinstein, MD; for the Society for Healthcare
Epidemiology of America and the Healthcare Infection Control Practices Advisory Committee

EXECUTIVE SUMMARY

Monitoring multidrug-resistant organisms (MDROs) and the infections they cause in a healthcare setting is important to detect newly emerging antimicrobial resistance profiles, to identify vulnerable patient populations, and to assess the need for and effectiveness of interventions; however, it is unclear which metrics are the best, because most of the metrics are

quantify the number of people whose MDRO acquisition is healthcare associated. In addition, healthcare facilities may want to calculate both the overall prevalence of carriage and the prevalence of carriage at admission, the latter of which can be useful in detecting importation of methicillin-resistant *S. aureus* into healthcare facilities, to estimate the exposure burden. Active surveillance testing can augment and increase the accuracy of some metrics. Healthcare facilities not per-

Ok, I'm listening..
What is the difference
between LabID Event
reporting and Infection
Surveillance or HAI
reporting?



	LabID Event	Infection Surveillance/HAI
Protocol	LabID Event protocol in Chapter 12 of NHSN manual	Site-specific protocol in NHSN manual (e.g., CLABSI, CAUTI....)
Signs & Symptoms	NONE. Laboratory and admission data only, without clinical evaluation of patient	Combination of laboratory data and clinical evaluation of patient (signs/symptoms)
Surveillance Rules	<ul style="list-style-type: none">• HAI and POA do NOT apply• Transfer Rule does NOT apply• Location = location of patient at time of specimen collection• Event date = specimen collection date	<ul style="list-style-type: none">• HAI and POA do apply• Transfer Rule applies• See NHSN protocol for details regarding location and date of event
Denominator Reporting	<ul style="list-style-type: none">• Number of patient days and admissions• Can be reported by specific location or facility-wide, depending on reporting option(s) selected• Inpatient and/or outpatient	<ul style="list-style-type: none">• Device days and patient days must be collected separately for each monitored location• Inpatient reporting only (<i>excluding SSI</i>)
Categorization of Infections	<ul style="list-style-type: none">• Events categorized based on inpatient or outpatient and admission and specimen collection dates• Healthcare Facility Onset (HO) and Community Onset (CO) events must be reported to NHSN	<ul style="list-style-type: none">• HAI protocols used• Events are either HAI or not• LabID Event categorizations do NOT apply• Only HAIs are reported to NHSN

Does this mean that
I must report LabID
Events and HAIs
separately?



YES

LabID Events and HAI Events
are two independent reporting
pathways! An Event that is both a
LabID Event and an HAI should be
reported twice (*if both are in-plan*),
once as a LabID Event
and also as an HAI.



FOR EXAMPLE.....


If you have a patient in the ICU with both a CLABSI and a MRSA bacteremia LabID Event, each Event should be reported separately in the NHSN application:

- 1. LCBI-CLABSI Event, *using the applicable HAI criteria, and***
- 2. LabID Event, *using the MRSA bacteremia LabID Event reporting protocol***

Example of MRSA LabID Event & BSI HAI Event with MRSA

Event Information [? HELP](#)

Event Type*: LABID - Laboratory-identified MDRO or CDI Event


Date Specimen Collected*: 01/07/2013 

Specific Organism Type*: MRSA - MRSA


Outpatient*: N - No

Specimen Body Site/Source*: CARD - Cardiovascular/ Circulatory/ Lymphatics

Specimen Source*: BLDSPC - Blood specimen


Date Admitted to Facility*: 01/02/2013 

Location*: 5W - 5 WEST - ICU

Date Admitted to Location*: 01/02/2013 

Event Information [? HELP](#)


Event Type*: BSI - Bloodstream Infection

Date of Event*: 01/07/2013 

Post-procedure: N - No

MDRO Infection Surveillance*: No, this infection's pathogen/location are not in-plan for Infection Surveillance in the MDRO/CDI Module

Location*: 5W - 5 West - ICU

Date Admitted to Facility*: 01/02/2013 

Pathogen 1: *Staphylococcus aureus* - SA 15 drugs required

* CIPRO	LEVO	MOXI	* DOXY	MINO	* CEFOX	METH	OX
OSOR	OSOR	OSOR	OSOR	OSOR	OSOR	OSOR	OSOR
OION	OION	OION	OION	OION	OION	OION	OION
* CULOR	* CLIND	* DAPTO	* ERYTH	* GENT	* IMZ	* CLIND	* DIF

Risk Factors [? HELP](#)

Central line*: Y - Yes

How do I get started with
reporting my MRSA
bacteremia and *C. difficile*
LabID Events?

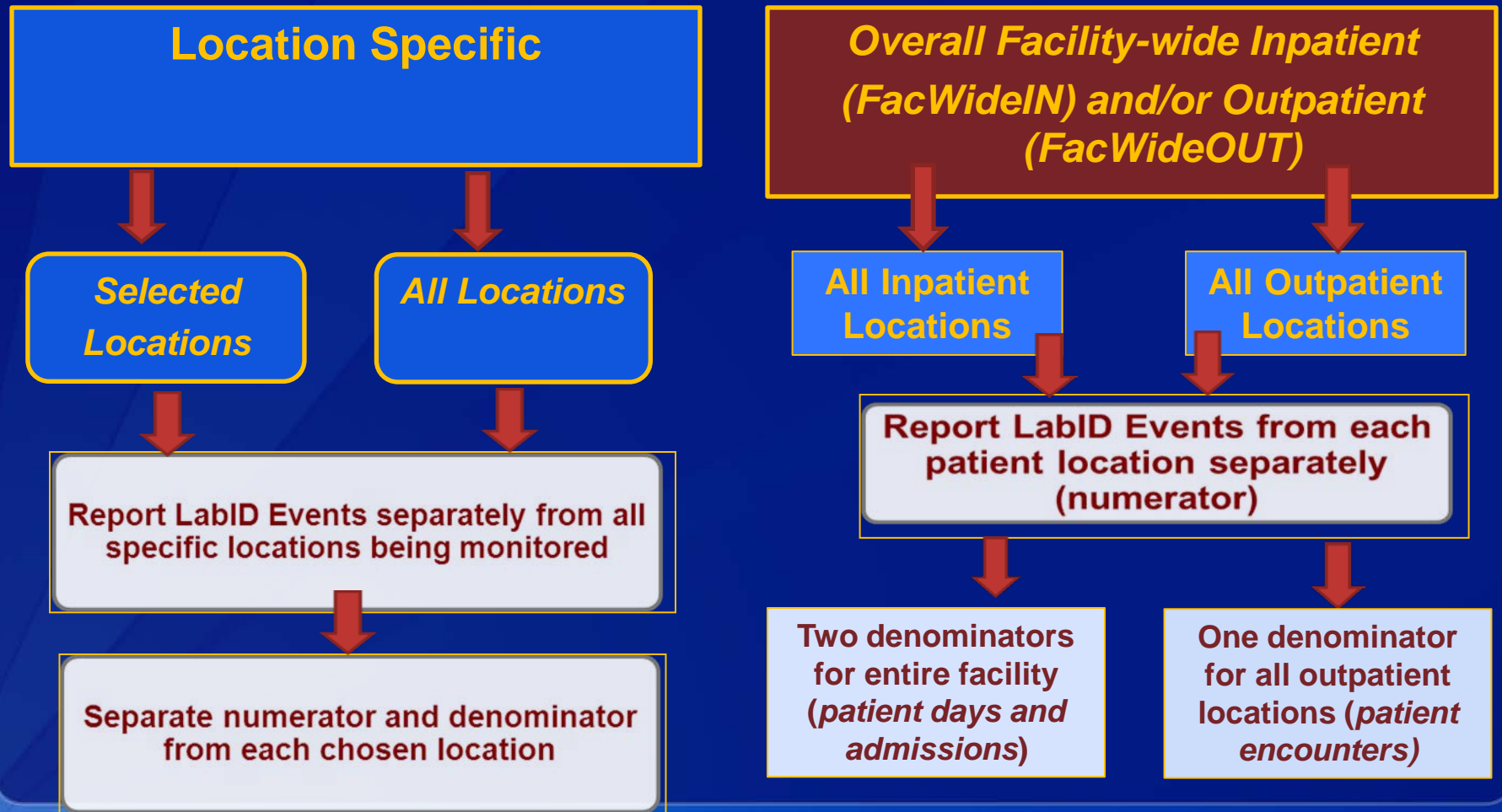


“CHECKLIST”

For Facility-wide Inpatient MRSA Bacteremia & *C. difficile* LabID Event Reporting

- ❑ Review location options and map inpatient locations in NHSN as necessary.**
- ❑ Review Monthly Reporting Plan(s) and update as necessary.**
- ❑ Identify and enter all MRSA bacteremia and *C. difficile* LabID events into NHSN by location.**
- ❑ Enter FacWideIN denominator data for each month under surveillance.**
- ❑ Resolve “Alerts”, if applicable.**

You have several options for Location Reporting



Since LabID Events must be reported on the unit level, how do I set-up my locations for facility-wide inpatient (FacWideIN) reporting?



Facility-wide Inpatient FacWideIN

**Option for LabID Event reporting
only!**

**Includes inpatient locations*,
including observation patients
housed in an inpatient location**

* See C. difficile LabID Event protocol for location exclusions


PS Home Page: Facility > Locations



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (ISD-CLFT-NHSN1)

[NHSN Home](#) | [My Info](#) | [Contact us](#) | [Help](#) | [Log Out](#)

 **NHSN Home**

Reporting Plan

Patient

Event

Procedure

Summary Data

Import/Export

Analysis

Surveys

Users

Facility ←

▶ Customize Forms

▶ Facility Info

▶ Add/Edit Component

▶ Locations ←

▶ Surgeons

Group

Log Out

Logged into Pleasant Valley Hospital (ID 10312) as DSIEVERT.
Facility Pleasant Valley Hospital (ID 10312) is following the PS component.

NHSN Patient Safety Component Home Page

Use the Navigation bar on the left to access the features of the application.

Assurance of Confidentiality: The information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).

**NHSN maintenance may occur nightly
between 12am and 6am Eastern time.**



[Get Adobe Acrobat Reader for PDF files](#)

Find Locations: All or Specific Search

Your Code*:

Your Label*:

CDC Location Description*:

Status*:


Bed Size*: A bed size greater than zero is required for most inpatient locations.

Find **Add** **Export Location List** **Clear**

[Display All](#) [Print Location List](#)

[First](#) | [Previous](#) | [Next](#) | [Last](#)

Displaying 1 - 6 of 6

<input type="checkbox"/>	Status	Your Code 	Your Label	CDC Description	CDC Code	NHSN HL7 Code	Bed Size
<input type="checkbox"/>	Active	3 CENTRAL	3 CENTRAL	Inpatient Medical Ward	IN:ACUTE:WARD:M	1060-3	20
<input type="checkbox"/>	Active	4F	MEDICAL PATIENTS	Inpatient Medical Ward	IN:ACUTE:WARD:M	1060-3	22
<input type="checkbox"/>	Active	INMEDWARD	INMEDWARD	Inpatient Medical Ward	IN:ACUTE:WARD:M	1060-3	5
<input type="checkbox"/>	Active	MD_WARD	MEDICAL WARD	Inpatient Medical Ward	IN:ACUTE:WARD:M	1060-3	
<input type="checkbox"/>	Active	OTHERHOSP	OTHERHOSP	Inpatient Medical Ward	IN:ACUTE:WARD:M	1060-3	30
<input type="checkbox"/>	Active	SCA2	TEST SCA LOCATION	Inpatient Medical Ward	IN:ACUTE:WARD:M	1060-3	15

[First](#) | [Previous](#) | [Next](#) | [Last](#)

Displaying 1 - 6 of 6

Add Location: Specify Location Info

Your Code*:

Your Label*:

CDC Location Description*:

Status*:

Bed Size*: A bed size greater than zero is required for most inpatient locations.



[Display All](#) [Print Location List](#)

[First](#) | [Previous](#) | [Next](#) | [Last](#)

Displaying 1 - 1 of 1

<input type="button" value="Delete"/>	Status	Your Code	Your Label	CDC Description	CDC Code	NHSN HL7 Code	Bed Size
<input type="checkbox"/>	Active	9 WEST	MEDICAL UNIT	Adult Mixed Acuity Unit	IN:ACUTE:MIXED:ALL_ADULT	1210-4	25

[First](#) | [Previous](#) | [Next](#) | [Last](#)

Displaying 1 - 1 of 1

“CHECKLIST”

For Facility-wide Inpatient MRSA Bacteremia & *C. difficile* LabID Event Reporting

- ✓ Review location options and map inpatient locations in NHSN as necessary.
- ❑ Review Monthly Reporting Plan(s) and update as necessary.
- ❑ Identify and enter all MRSA bacteremia and *C. difficile* LabID events into NHSN by location.
- ❑ Enter FacWideIN denominator data for each month under surveillance.
- ❑ Resolve “Alerts”, if applicable.

Monthly Reporting Plan

- ❑ **The Monthly Reporting Plan informs CDC which modules a facility is participating in during a given month**
 - Referred to as “In-Plan” data
- ❑ **The Plan also informs CDC which data can be used for aggregate analyses**
 - This INCLUDES sharing applicable data with CMS!
- ❑ **A facility must enter a Plan for every month of the year**
- ❑ **Plans can be modified retrospectively**

Monthly Reporting Plan

- ❑ **NHSN will only submit data to CMS for those complete months in which the following are indicated on the monthly reporting plan:**
 - FacWideIN MRSA LabID – either “Blood Specimens Only” or “All Specimens”
 - FacWideIN CDI LabID

Monthly Reporting Plan



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

[NHSN Home](#) | [My Info](#)

NHSN Home

Alerts

Reporting Plan

Add

Find

Patient

Event

Procedure

Summary Data

Import/Export

Analysis

Surveys

Users

Facility

Group

Logged into DHQP Memorial Hospital (ID 10000) as ANGELA.
Facility DHQP Memorial Hospital (ID 10000) is following the PS component.

Add Monthly Reporting Plan

☒ No data found for June, 2013

Mandatory fields marked with *

Facility ID*:

Month*:

Year*:

☐ No NHSN Patient Safety Modules Followed this Month

Multi-Drug Resistant Organism Module [HELP](#)

Locations

Specific Organism Type

Process and Outcome Measures

Infection
Surveillance

AST-Timing

AST-Eligible

Incidence Prevalence

Lab ID Event
All Specimens

Lab ID E
Blood Sp

☐

☐

☐

☐

☐





Add Rows




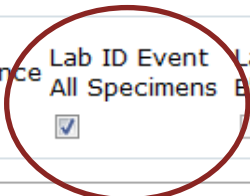
Clear All Rows

Copy from Previous Month

Monthly Reporting Plan

Multi-Drug Resistant Organism Module [?HELP](#)

Locations	Specific Organism Type	
 FACWIDEIN - FacWideIN 	MRSA - MRSA 	
Process and Outcome Measures		
Infection Surveillance	AST-Timing	AST-Eligible
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Incidence Prevalence		Lab ID Event
<input type="checkbox"/>		All Specimens
		Lab ID Event Blood Specimens Only 
		<input checked="" type="checkbox"/>
		HH GG
		<input type="checkbox"/> <input type="checkbox"/>

Locations	Specific Organism Type	
 FACWIDEIN - FacWideIN 	CDIF - C. difficile 	
Process and Outcome Measures		
Infection Surveillance	AST-Timing	AST-Eligible
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Incidence Prevalence		Lab ID Event
<input type="checkbox"/>		All Specimens
		Lab ID Event Blood Specimens Only 
		<input checked="" type="checkbox"/>
		HH GG
		<input type="checkbox"/> <input type="checkbox"/>

Vaccination Module [?HELP](#)

Summary Method: ☐

Patient-level Method: ☐

Save

Back

Monthly Reporting Plan

Process and Outcome Measures

Infection Surveillance	AST-Timing	AST-Eligible	Incidence	Prevalence	Lab ID Event All Specimens	Lab ID Event Blood Specimens
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Patient Influenza Vaccination Module [HELP](#)

Method A: ☐

Method B: ☐

CDC Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

Logged into DHQP Memorial Hospital (10000) as MAGGIE.
Facility DHQP Memorial Hospital (10000) is following the PS component.

View Monthly Reporting Plan

☒ Plan saved successfully.

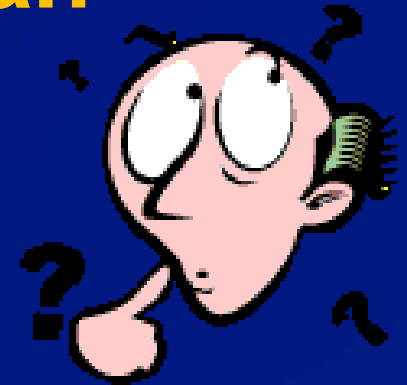
Mandatory fields marked with *

Facility ID*: DHQP Memorial Hospital (10000)
Month*: January
Year*: 2011

Device-Associated Module [HELP](#)

Locations	CLA BSI DE VAP CAUTI CLIP
MEDSURG ICU	X
	X

Monthly Reporting Plan



If your facility chooses to report LabID Events for all MRSA specimens (and indicates this in the plan), only those MRSA LabID Events from blood specimens will be included in the aggregate data sent to CMS.

We are participating in a *C. difficile* prevention collaborative in one of the inpatient units. I want to target *C. difficile* LabID Events in that unit in addition to the FacWideIN monitoring. How do I add this unit to my monthly plan?



Monthly Reporting Plan

❏ To MODIFY a Plan:



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

NHSN Home

Alerts

Reporting Plan

▢ Add

▢ Find

Patient

Event

Procedure

Summary Data

Import/Export

Analysis

Surveys

Users

Facility

Group

Log Out

Logged into DHQP Memorial Hospital (ID 10000) as MAGGIE.
Facility DHQP Memorial Hospital (ID 10000) is following the PS component.

Find Monthly Reporting Plan

HELP

- Enter search criteria and click Find
- Fewer criteria will return a broader result set
- More criteria will return a narrower result set

Facility ID:

Month:

Year:

Find

Clear

Back

Edit

Previous

Next

Back

Monthly Reporting Plan

Multi-Drug Resistant Organism Module [HELP](#)

Locations

Specific Organism Type

 FACWIDEIN - FacWideIN  MRSA - MRSA 

Process and Outcome Measures

Infection
Surveillance

AST-Timing

AST-Eligible

Incidence Prevalence

Lab ID Event
All Specimens

Lab ID Event
Blood Specimens Only

HH GG

☐   ☐ ☐ ☐ ☒ ☐ ☐

 FACWIDEIN - FacWideIN  CDIF - C. difficile 

Process and Outcome Measures

Infection
Surveillance

AST-Timing

AST-Eligible

Incidence Prevalence

Lab ID Event
All Specimens

Lab ID Event
Blood Specimens Only

HH GG

☐   ☐ ☐ ☐ ☒ ☐ ☐

Add Rows

Clear All Rows

Copy from Previous Month

9 WEST - MEDICAL UNIT  CDIF - C. difficile 

Process and Outcome Measures

Infection
Surveillance

AST-Timing

AST-Eligible

Incidence Prevalence

Lab ID Event
All Specimens

Lab ID Event
Blood Specimens Only

HH GG

☐   ☐ ☐ ☐ ☒ ☐ ☐

“CHECKLIST”

For Facility-wide Inpatient MRSA Bacteremia & *C. difficile* LabID Event Reporting


- ✓ Review location options and map inpatient locations in NHSN as necessary.
- ✓ Review Monthly Reporting Plan(s) and update as necessary.
- ❑ **Identify and enter all MRSA bacteremia and *C. difficile* LabID events into NHSN by location.**
- ❑ Enter FacWideIN denominator data for each month under surveillance.
- ❑ Resolve “Alerts”, if applicable.

LabID Events

- ❑ Use the MDRO/CDI protocol to identify MRSA bacteremia and *C. difficile* LabID Events
- ❑ ALL identified MRSA bacteremia and *C. difficile* LabID Events from all inpatient locations must be entered into NHSN
- ❑ This means the specific location where the patient was assigned at the time of specimen collection must be indicated as the location (see *provision for affiliated outpatient locations*)

Event Information

Event Type*: LABID - Laboratory-identified MDRO or CDI Event


Date Specimen Collected*: 09/15/2012 

Specific Organism Type*: CDIF - C. difficile


Outpatient*: N - No

Specimen Body Site/Source*: DIGEST - Digestive System

Specimen Source*: STOOL - Stool specimen


Date Admitted to Facility*: 09/10/2012 

Location*: **ORT - ORTHOPEDICS**

Date Admitted to Location*: 09/10/2012 

Documented prior evidence of previous infection or colonization with this specific organism type from a previously reported LabID Event?: ☐ N

Has patient been discharged from your facility in the past 3 months?*: ☐ N

 **Laboratory-identified MDRO or CDI Event** OMB No. 0920-0668
Exp. Date: XX/XX/XXXX

*required for saving

Facility ID: _____ Event #: _____

*Patient ID: _____ Social Security #: _____

Secondary ID: _____

Patient Name, Last: _____ First: _____ Middle: _____

*Gender: M F *Date of Birth: _____

Ethnicity (Specify): _____ Race (Specify): _____

Event Details

*Event Type: LabID *Date Specimen Collected: _____

*Specific Organism Type: (Check one)

☐ MRSA ☐ MSSA ☐ VRE ☐ C. difficile

☐ CephR-Klebsiella ☐ CRE-Ecoli ☐ CRE-Klebsiella ☐ MDR-Adnetobacter

*Outpatient: Yes No *Specimen Body Site/System: _____ *Specimen Source: _____

*Date Admitted to Facility: _____ *Location: _____ *Date Admitted to Location: _____

*Has patient been discharged from your facility in the past 3 months? Yes No

If Yes, date of last discharge from your facility: _____

Custom Fields

Label _____ Label _____

For FacWideIN LabID Event Reporting

*Emergency Department or Affiliated
Outpatient Location.....*

If date of specimen collection = physical
inpatient admission calendar date



**Report as LabID Event for admitting
inpatient location**



For FacWideIN & Outpatient (e.g. FacWideOUT) LabID Event Reporting

*Emergency Department or Affiliated Outpatient
Location.....*

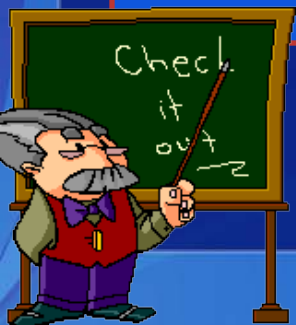
If date of specimen collection = physical inpatient
admission calendar date



Report as LabID Event for admitting inpatient location

AND

Report as LabID Event for outpatient location



**What if the specimen
was collected from ED
location on 4/1 at 11:55 pm and
the patient was later admitted
to an inpatient location on 4/2
at 12:03 am, can I enter this as
an inpatient LabID Event for
FacWideIN?**





No

Specimen collection day and admission day must be the SAME calendar day, no exceptions. The NHSN application only recognizes calendar days and not 24° as a day

Overview

**MRSA Bacteremia LabID
Event Reporting in NHSN**



Setting

Can occur in any inpatient or outpatient location.

NOTE: For FacWideIN LabID Event reporting, only inpatient locations are included unless the patient is admitted to inpatient location on the same calendar day as specimen collection from an affiliated outpatient location

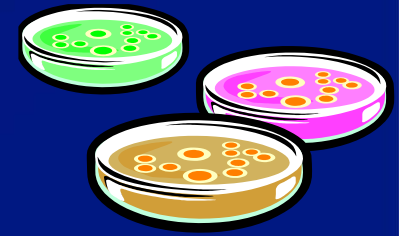
Definition

MRSA Positive Blood Isolate

Any blood specimen obtained for clinical decision making for MRSA

(excludes screening cultures, such as those used for active surveillance testing)

Definition MRSA Bacteremia LabID Event



MRSA positive blood specimen for a patient in a location with no prior MRSA positive blood specimen result collected within 14 days for the patient and location (*includes across calendar months for Blood Specimen Only reporting*)

Also referred to as non-duplicate LabID Events

Definition

Duplicate MRSA Bacteremia LabID Event

Any MRSA blood isolate from the same patient and same location, following a previous positive MRSA blood laboratory result within the **past 14 days** (*including across calendar months for blood specimens only reporting*)

MRSA Bacteremia LabID Event Reporting

Blood Specimen Only

Begin
Here →

MRSA isolate from blood per
patient and location

Prior (+) MRSA
from blood
≤ 2 weeks from same patient and
Location (*including across
calendar month*)

YES

Not a
LabID
Event
(Duplicate)

NO

LabID Event
(*unique MRSA
blood source*)

**What do I do once
I identify a MRSA
bacteremia LabID Event?**



Event - Patient Information



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (ISD-CLFT-NHSN1)

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Logged into Pleasant Valley Hospital (ID 10312) as DSIEVERT.
Facility Pleasant Valley Hospital (ID 10312) is following the PS component.

Add Event

[Print PDF Form](#)

Mandatory fields marked with *

Fields required for record completion marked with **

Fields required when in Plan marked with >

Patient Information

Facility ID*: Pleasant Valley Hospital (ID 10312) ▼

Event #: 24941

Patient ID*: DS3636

Social Security
#:

Secondary ID:

Last Name:

First Name:

Middle Name:

Gender*: F - Female ▼

Date of Birth*: 05/16/1943



Ethnicity:


Race: ☐ American Indian/Alaska Native

☐ Asian

☐ Black or African American

☐ Native Hawaiian/Other Pacific Islander

☐ White

 [NHSN Home](#)

[Reporting Plan](#)

[Patient](#)

[Event](#)

[Add](#)

[Find](#)

[Incomplete](#)

[Procedure](#)

[Summary Data](#)

[Import/Export](#)

[Analysis](#)

[Surveys](#)

[Users](#)

[Facility](#)

[Group](#)

[Log Out](#)

Add Event Information

- ❑ For FacWideIN reporting, ALL identified non-duplicate MRSA bacteremia LabID events from all inpatient locations must be entered into NHSN
- ❑ The specific inpatient location where the patient was assigned at the time of specimen collection must be indicated!

Event Information ?HELP

Event Type*: LABID - Laboratory-identified MDRO or CDI Event

Date Specimen Collected*: 03/05/2013

Specific Organism Type*: MRSA - MRSA

Outpatient*: N - No

Specimen Body Site/Source*: CARD - Cardiovascular/ Circulatory/ Lymphatics

Specimen Source*: BLDSPC - Blood specimen

Date Admitted to Facility*: 03/01/2013

Location*: 5 WEST - 5 WEST

Date Admitted to Location*: 03/01/2013

Documented prior evidence of previous infection or colonization with this specific organism type from a previously reported LabID Event?: Y - Yes

Has patient been discharged from your facility in the past 3 months?: N - No

Based on
previous
month
Events


What if the electronic medical record shows that the patient was admitted on 4/1/13, but the patient remained in the ED until 4/2/13, what admission date should I use?



4/2/13

The admission date should reflect the date the patient was physically admitted to an inpatient location. Time spent in the ED or other outpatient location (observation unit) should not contribute towards inpatient counts.





**If a patient has a history
of MRSA, can I change the
“*documented prior evidence
of infection or colonization
with this specific organism
type from previously reported
LabID Events*” to indicate
Yes?**



**This field is auto populated
by NHSN, based on prior month
LabID Events entered by your
facility for the organism
(MRSA/MDRO).**

**What is the purpose of
“*documented prior evidence
of infection or colonization
with this specific organism
type from previously reported
LabID Events*” if I can’t
change the data field?**



The information is used in the calculation of MDRO Infection/Colonization Incidence Rate when a facility is reporting all specimens (not just blood).

What this means is that facilities are not being penalized when it comes to the overall (all specimen) infection/colonization incidence rate, as all “YES” previous positive Events are excluded.

****This data field is not used for *C. difficile* analysis.**

**Since I must enter ALL
MRSA bacteremia LabID
Events, how does the NHSN
application know which
ones are healthcare
associated?**



REMEMBER



LabID Events are not identified as HAls since these are considered proxy infection measures only. Instead, NHSN will categorize MRSA LabID Events as Healthcare Facility-Onset (HO) or Community-Onset (CO)

NHSN will Categorize your MRSA Blood Specimen LabID Events as CO or HO

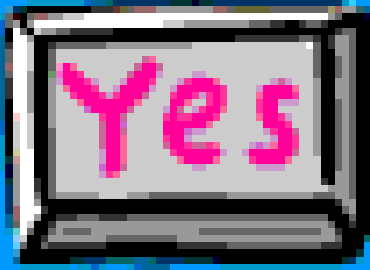
NHSN Application Categorizes* LabID Events As:

- Community-Onset (CO): LabID Event specimen collected as an inpatient ≤ 3 days after admission to the facility (i.e., days 1 (admission), 2, or 3)
- Healthcare Facility-Onset (HO): LabID Event specimen collected > 3 days after admission to the facility (i.e., on or after day 4)

*Based on Inpatient Admission & Specimen Collection Dates

What if the patient was admitted with a suspected BSI, but the blood culture was not collected until Day 4, will this still count as a healthcare facility onset (HO) LabID Event for my facility?





**LabID Events
are categorized
as HO or CO based on
admission date and specimen
collection date. Exceptions are
not made for signs/symptoms.
This allows for more effective
standardization of reporting
across all facilities.**

Let's Review

MRSA Bacteremia LabID Events for FacWideIN

- ✓ MRSA blood specimens **MUST** be monitored throughout all inpatient locations within a facility.
- ✓ All MRSA blood LabID Event(s) **MUST** be entered whether community-onset (CO) or healthcare facility-onset (HO).
- ✓ A blood specimen qualifies as a LabID Event if there has not been a previous positive blood culture result for the **patient, organism (MRSA), and location** within the **previous 14 days**.
- ✓ Specimens collected from ED or other affiliated outpatient location may be entered for FacWideIN **ONLY** if specimen collection date = admission date.

Overview

C. difficile LabID Event Reporting in NHSN



Setting

Can occur in any inpatient or outpatient location except locations known to predominantly house babies. This includes: neonatal intensive care unit (NICU), specialty care nursery (SCN), babies in labor, delivery, recovery, post-partum (LDRP), well-baby nurseries, or well-baby clinics.

Setting



**For FacWideIN LabID Event reporting,
only inpatient locations are included
unless the patient is admitted to an
inpatient location on the same
calendar day as specimen collection
from an affiliated outpatient
location**

**Do I also exclude babies
housed in pediatric or other
non-baby locations?**





The intent is to maximize standardization and to eliminate extra burden in identifying & removing infants <12 months of age from units that do not predominantly care for this age group. Therefore, users should only exclude locations that are known to predominantly house infants (see *NHSN 80/20 Rule*).

Definition

CDI Positive Laboratory

- A positive laboratory test result for *C. difficile* toxin A and/or B, (includes molecular assays [PCR] and/or toxin assays)

OR

- A toxin-producing *C. difficile* organism detected by culture or other laboratory means performed on a stool sample

C. difficile testing
only on
unformed stool
samples!!

Stool should
conform to
shape of
container



**All of these different
laboratory tests *for C.
difficile* confuse me!! Can
you help me to understand
the differences between
these tests?**

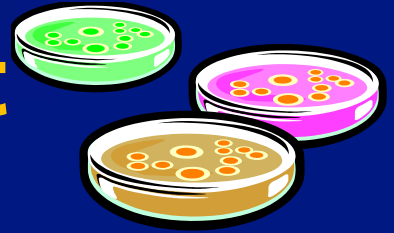


CDI LabID Event: Laboratory Testing

Diagnostic Test	Demonstrates Evidence of Toxigenic Strain		Comments
	YES	NO	
Glutamate dehydrogenase (GDH) antigen		X	Detects antigen in both toxin and non-toxin producing strains
Toxin enzyme immunoassay (EIA)	X		<ul style="list-style-type: none"> <i>C. difficile</i> toxin A and/or B GDH plus EIA for toxin (2-step algorithm)
Nucleic acid amplification test [NAAT](e.g., PCR, LAMP)	X		<ul style="list-style-type: none"> <i>C. difficile</i> toxin B gene GDH plus NAAT (2-step algorithm) GDH plus EIA for toxin, followed by NAAT for discrepant results
Cell cytotoxicity neutralization assay (CCNA)	X		<ul style="list-style-type: none"> Requires tissue culture
Toxigenic (cytotoxic) <i>C. difficile</i> culture	X⁺		+Requires use of second test for toxin detection

Definition

CDI LabID Event



A toxin-positive *C. difficile* stool specimen for a patient in a location with no prior *C. difficile* specimen result reported within **14 days** for the **patient and location**

Also referred to as non-duplicate LabID Events

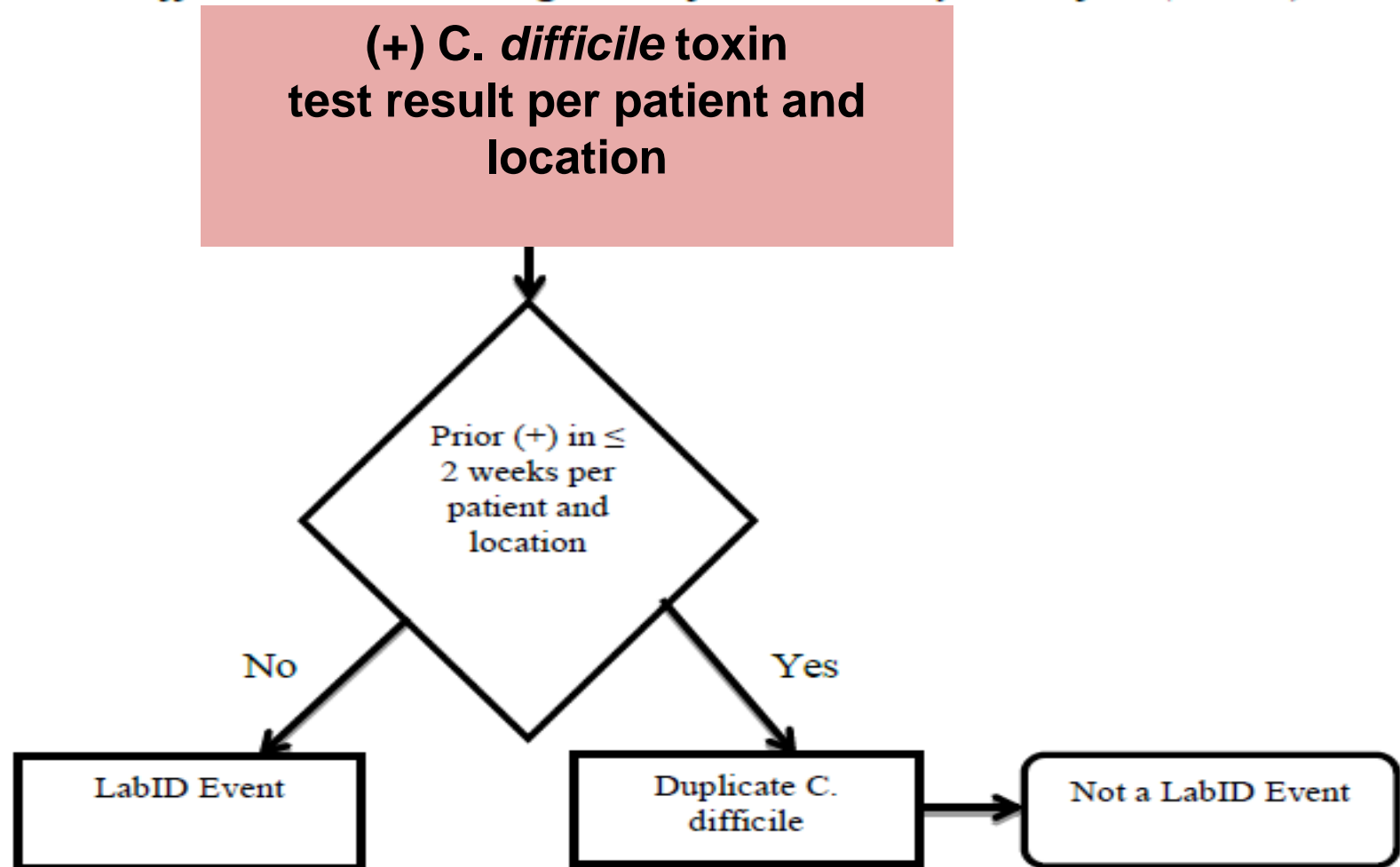
Definition

Duplicate *C. difficile* Positive Test

Any *C. difficile* toxin-positive laboratory result from the same patient and same location, following a previous *C. difficile* toxin-positive laboratory result within the past 14 days

Identifying a *C. difficile* LabID Event

Figure 2. C. difficile test Results Algorithm for Laboratory-Identified (LabID) Events



Are you saying that I must report two LabID Events if a patient has a toxin positive stool collected while in two different locations, even if collection occurs within the 14-day time-frame?





YES.

A new LabID Event from a new location within the facility should be reported. This allows users to follow patients that carry potential exposure & transmission burden to new locations in the facility. The NHSN system is designed when calculating events at the FacWideIN level to remove the duplicates.



Once I identify a *C. difficile*
LabID Event, what is the
next step?

Event - Patient Information



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (ISD-CLFT-NHSN1)

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Logged into Pleasant Valley Hospital (ID 10312) as DSIEVERT.
Facility Pleasant Valley Hospital (ID 10312) is following the PS component.

Add Event

[Print PDF Form](#)

Mandatory fields marked with *

Fields required for record completion marked with **

Fields required when in Plan marked with >

Patient Information

Facility ID*: Pleasant Valley Hospital (ID 10312) ▼

Event #: 24941

Patient ID*: DS3636

Find

Find Events for Patient

Social Security
#:

Secondary ID:

Last Name:

First Name:

Middle Name:

Gender*: F - Female ▼

Date of Birth*: 05/16/1943



Ethnicity:


Race: ☐ American Indian/Alaska Native

☐ Asian

☐ Black or African American

☐ Native Hawaiian/Other Pacific Islander

☐ White

 NHSN Home


Reporting Plan

Patient

Event

 Add

 Find

 Incomplete

Procedure

Summary Data

Import/Export

Analysis

Surveys

Users


Facility

Group


Log Out

Add Event Information

- ❑ For FacWideIN reporting- ALL identified non-duplicate *C. difficile* LabID Events from inpatient locations* must be entered into NHSN
- ❑ The specific inpatient location where the patient was assigned at

Event Information 

Event Type*: LABID - Laboratory-identified MDRO or CDI Event ▾


Date Specimen Collected*: 09/15/2012 

Specific Organism Type*: CDIF - C. difficile ▾


Outpatient*: N - No ▾

Specimen Body Site/Source*: DIGEST - Digestive System ▾

Specimen Source*: STOOL - Stool specimen ▾

Date Admitted to Facility*: 09/10/2012 

Location*: ORT - ORTHOPEDICS ▾

Date Admitted to Location*: 09/10/2012 

Documented prior evidence of previous infection or colonization with this specific organism type from a previously reported LabID Event?: N - No ▾

Has patient been discharged from your facility in the past 3 months?*: N - No ▾

Based on prior months' Events. Not used in CDI calculations

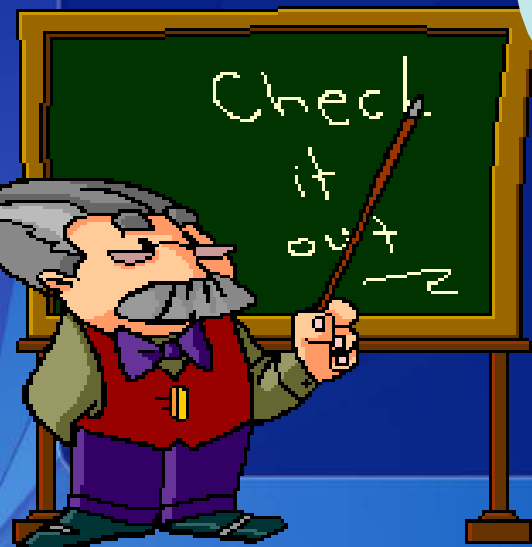
* Excluding baby locations- NICU, SCN, well baby, babies in LDRP

What if the electronic medical record shows that the patient was admitted on 4/1, but the patient remained in the ED until 4/2, what admission date should I use?



**AND, The Answer
Is.....**

The admission date should reflect the date the patient was physically admitted to an inpatient location. Time spent in the ED or other outpatient location (observation unit) should not contribute towards inpatient counts.



Since I must enter ALL *C. difficile* LabID Events, how does the NHSN application know which ones are healthcare associated?



REMEMBER...

LabID Events are not identified as HAls since these are considered proxy infection measures only. Instead, NHSN will categorize *C. difficile* LabID Events as Healthcare Facility-Onset (HO), Community-Onset (CO), or Community-Onset Healthcare Facility-Associated (CO-HCFA)



NHSN will Categorize *C. difficile* LabID Events Based on Inpatient Admission & Specimen Collection Dates

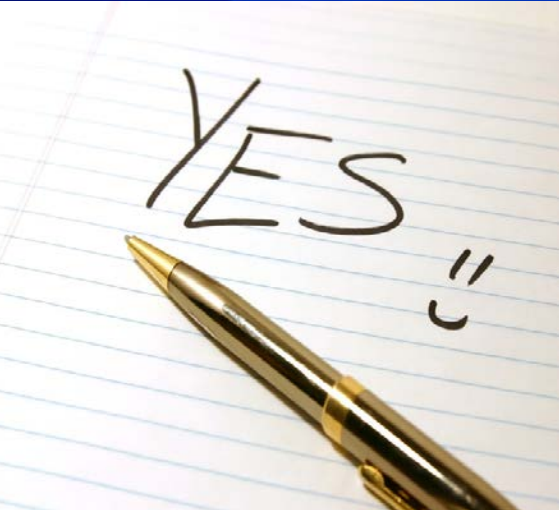
- Healthcare Facility-Onset (HO): LabID Event specimen collected > 3 days after admission to the facility (i.e., on or after day 4).
- Community-Onset (CO): LabID Event specimen collected as an inpatient ≤ 3 days after admission to the facility (i.e., days 1 (admission), 2, or 3).
- Community-Onset Healthcare Facility-Associated (CO-HCFA): CO LabID Event collected from a patient who was discharged from the facility ≤ 4 weeks prior to the date current stool specimen was collected.

NHSN will Further Categorize *C. difficile* LabID Events based on Specimen Collection Date & Prior Specimen Collection Date of a Previous CDI LabID Event (that was entered into NHSN)

- **Incident CDI Assay**: Any CDI LabID Event from a specimen obtained **> 8 weeks** after the most recent CDI LabID Event (or with no previous CDI LabID Event documented) for that patient.
- **Recurrent CDI Assay**: Any CDI LabID Event from a specimen obtained **> 2 weeks** and **≤ 8 weeks** after the most recent CDI LabID Event for that patient.

**Will a patient in my facility
still be categorized as
CO-HCFA if he/she spent
time in a nursing home
between admissions to my
facility?**





Although the patient could have spent time at another facility in the time between previous discharge and the new admission, this additional information is not utilized because of burden for searching outside of one's own facility.

Custom fields can be used, if a facility wants to track such information.



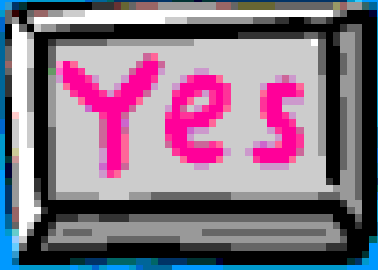
LabID Events categorized as CO-HCFA are simply an additional level and subset of the categorized CO events.

A yellow sticky note is pinned to a dark blue background with two red pushpins. The note contains the text "CO-HCFA LabID Event data are NOT shared with CMS" in blue capital letters.

**CO-HCFA LabID Event
data are NOT shared with
CMS**

What if the patient was admitted with diarrhea, but the stool was not tested for *C. difficile* until day 4, will the Event still be categorized as healthcare facility-onset (HO)?





A LabID Event will be categorized as HO if specimen collection is >3 days after admission to the facility. No exceptions!!


LabID Events are categorized based on the date of specimen collection and the date of admission

A yellow sticky note is pinned to a dark blue background with three red pushpins. The note contains the text "Signs and Symptoms are NOT applicable to LabID Event reporting" in blue font.

**Signs and Symptoms are
NOT applicable to LabID
Event reporting**

What if the patient has a history of *C. difficile*, but was retested in my facility >3 days after admission, will the Event still be categorized as healthcare facility-onset (HO)?





**A LabID Event
will be categorized as HO
if specimen collection is
>3 days after admission.**

**This is irrespective
of the patient having a history
of *C. difficile*.**

BUT.....

A *C. difficile* LabID Event is categorized as Incident or Recurrent based on current specimen collection date and specimen collection date of previous *C. difficile* LabID Event within the same facility



**Only incident HO
C. difficile LabID Event data
are shared with CMS!!!**

Let's Review

***C. difficile* LabID Events for FacWideIN**

- ✓ **C. diff toxin-positive specimens MUST be monitored throughout all inpatient locations within a facility.**
Exception: NICUs, SCN, Well Baby Nurseries, and babies in LDRP units are excluded in C. difficile LabID Event reporting only
- ✓ **All LabID Event(s) MUST be entered whether community-onset (CO) or healthcare facility-onset (HO)**
- ✓ **Only loose stools should be tested for *C. difficile***
- ✓ **A toxin positive loose stool specimen qualifies as a LabID Event if there has not been a previous positive laboratory result for the patient and location within the previous 14 days**

Wait!!

**According to the LabID
Event protocol for MRSA and
C. difficile, I must only report to
NHSN positive isolates that
occur > 14-days per patient, per
isolate, per location. Is this
correct?**





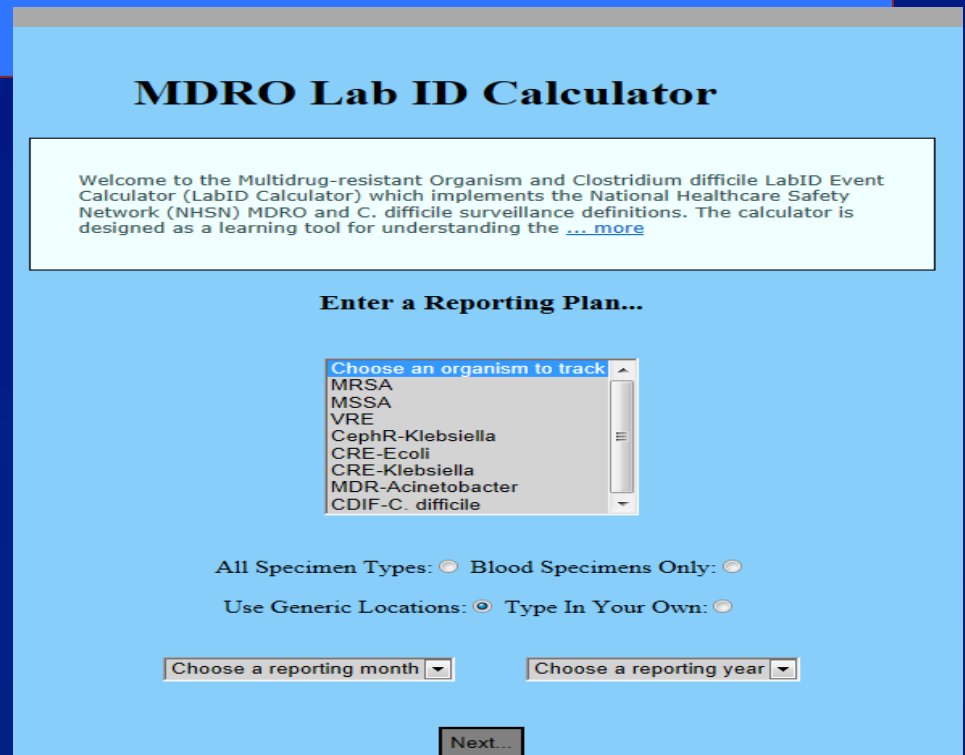
YES

Only non-duplicate LabID Events should be entered into the NHSN application. There must be a full 14-days since the patient's most recent matching positive isolate (MRSA blood; *C. difficile* toxin positive) while in the same location.



LabID Event Calculator

- Available for use with *C. difficile* and MDRO LabID Event reporting
- Aids in decision making around the 14-day rule
- External calculator



The screenshot shows the 'MDRO Lab ID Calculator' web interface. It has a light blue background with a white header area containing the title. Below the header is a white box with a welcome message. The main content area is light blue and contains a section titled 'Enter a Reporting Plan...'. This section includes a dropdown menu for 'Choose an organism to track' with a list of organisms, two radio button options for 'All Specimen Types' and 'Blood Specimens Only', another two radio button options for 'Use Generic Locations' and 'Type In Your Own', and two dropdown menus for 'Choose a reporting month' and 'Choose a reporting year'. A 'Next...' button is located at the bottom right of the form.

MDRO Lab ID Calculator

Welcome to the Multidrug-resistant Organism and Clostridium difficile LabID Event Calculator (LabID Calculator) which implements the National Healthcare Safety Network (NHSN) MDRO and *C. difficile* surveillance definitions. The calculator is designed as a learning tool for understanding the [... more](#)

Enter a Reporting Plan...

Choose an organism to track

- MRSA
- MSSA
- VRE
- CephR-Klebsiella
- CRE-Ecoli
- CRE-Klebsiella
- MDR-Acinetobacter
- CDIF-C. difficile

All Specimen Types: ☐ Blood Specimens Only: ☐

Use Generic Locations: ☐ Type In Your Own: ☐

Choose a reporting month Choose a reporting year

Next...

To Begin...

- 1: Choose Organism
- 2: Select reporting type (MRSA/MDRO): *ALL specimen Types* or *Blood Specimens Only*
- 3: Select Generic Locations or Type in Your Own Locations
- 4: Choose a reporting month and year

MDRO Lab ID Calculator

Welcome to the Multidrug-resistant Organism and Clostridium difficile LabID Event Calculator (LabID Calculator) which implements the National Healthcare Safety Network (NHSN) MDRO and C. difficile surveillance definitions. The calculator is designed as a learning tool for understanding the [... more](#)

Enter a Reporting Plan...

Choose an organism to track

MRSA
MSSA
VRE
CephR-Klebsiella
CRE-Ecoli
CRE-Klebsiella
MDR-Acinetobacter
CDIF-C. difficile

All Specimen Types: ☐

Blood Specimens Only: ☐

Use Generic Locations: ☒

Type In Your Own: ☐

Choose a reporting month

Choose a reporting year

Next...

MDRO Lab ID Calculator

Reporting Plan:

Reporting month: December, 2013
Location: Facility Wide
Organism: MRSA
Scope: All Specimens

[Back to instructions...](#)

Clear Data...

Start Over

Close

Calculate Lab

- Specimen collection date
- Organism
- Specimen Body Site
- Specimen Type
- Location of patient at time of specimen collection.

Date	Positive for...	Specimen Body Site	Specimen Type	Location	Reportable
11/16/2013	...	...	...	...
11/17/2013	...	...	...	...
11/18/2013	...	...	...	...
11/19/2013	...	...	...	...
11/20/2013	...	...	...	...
11/21/2013	...	...	...	...
11/22/2013	...	...	...	...
11/23/2013	...	...	...	...
11/24/2013	...	...	...	...
11/25/2013	...	...	...	...
11/26/2013	...	...	...	...
11/27/2013	...	...	...	...
11/28/2013	...	...	...	...
11/29/2013	...	...	...	...
11/30/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	UNK
12/1/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	ARTERY -Artery sample	BURN ICU	YES
12/2/2013	...	...	...	...
12/3/2013	...	...	...	...
12/4/2013	...	...	...	...
12/5/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	NO
12/6/2013	...	...	...	...
12/7/2013	...	...	...	...
12/8/2013	...	...	...	...
12/9/2013	...	...	...	...
12/10/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	NO
12/11/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	CARDIAC ICU	YES
12/12/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	NO
12/13/2013	...	...	...	...

MDRO Lab ID Calculator

Reporting Plan:

Reporting month: December, 2013
Location: Facility Wide
Organism: MRSA
Scope: All Specimens

[Back to instructions...](#)

[Clear Data...](#)

[Start Over](#)

[Close](#)

[Calculate Lab ID](#)



Once all applicable specimens have been entered, click **Calculate Lab ID**



Review Reportable column for validation of reportable LabID Events

Date	Positive for...	Specimen Body Site	Specimen Type	Location	Reportable
11/16/2013	...	...	...	...
11/17/2013	...	...	...	...
11/18/2013	...	...	...	...
11/19/2013	...	...	...	...
11/20/2013	...	...	...	...
11/21/2013	...	...	...	...
11/22/2013	...	...	...	...
11/23/2013	...	...	...	...
11/24/2013	...	...	...	...
11/25/2013	...	...	...	...
11/26/2013	...	...	...	...
11/27/2013	...	...	...	...
11/28/2013	...	...	...	...
11/29/2013	...	...	...	...
11/30/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	UNK
12/1/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	ARTERY -Artery sample	BURN ICU	YES
12/2/2013	...	...	...	...
12/3/2013	...	...	...	...
12/4/2013	...	...	...	...
12/5/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	NO
12/6/2013	...	...	...	...
12/7/2013	...	...	...	...
12/8/2013	...	...	...	...
12/9/2013	...	...	...	...
12/10/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	NO
12/11/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	CARDIAC ICU	YES
12/12/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLDSPC -Blood specimen	BURN ICU	NO
12/13/2013	...	...	...	...

Reportable
LabID Events

LabID Event Calculator

- Grayed dates are outside of the selected reporting month.
- Only enter positive lab results for applicable specimens in the grayed dates to calculate the 14 day rule. **NOTE:** A determination is not provided for lab results entered into the grayed dates since these are outside of the selected reporting month.
- You may change values, and recalculate as many times as you wish for a given reporting plan.
- To get an explanation of a determination, click on the YES/NO/UNK values that will appear in the right column.
- If you need to enter more than one lab result on a calendar day, click on the applicable date to generate a new row.

MDRO Lab ID Calculator

Reporting Plan:

Reporting month: December, 2013
 Location: Facility Wide
 Organism: MRSA
 Scope: All Specimens

[Back to instructions...](#)

[Clear Data...](#) [Start Over](#) [Close](#) [Calculate Lab ID](#)

Date	Positive for...	Specimen Body Site	Specimen Type	Location	Reportable
11/16/2013	...	...	...	...	...
11/17/2013	...	...	...	...	...
11/18/2013	...	...	...	...	...
11/19/2013	...	...	...	...	...
11/20/2013	...	...	...	...	...
11/21/2013	...	...	...	...	...
11/22/2013	...	...	...	...	...
11/23/2013	...	...	...	...	...
11/24/2013	...	...	...	...	...
11/25/2013	...	...	...	...	...
11/26/2013	...	...	...	...	...
11/27/2013	...	...	...	...	...
11/28/2013	...	...	...	...	...
11/29/2013	...	...	...	...	...
11/30/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLOODPC -Blood specimen	BURN ICU	UNK
12/1/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	ARTERY -Artery sample	BURN ICU	YES
12/2/2013	...	...	...	...	...
12/3/2013	...	...	...	...	...
12/4/2013	...	...	...	...	...
12/5/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLOODPC -Blood specimen	BURN ICU	NO
12/6/2013	...	...	...	...	...
12/7/2013	...	...	...	...	...
12/8/2013	...	...	...	...	...
12/9/2013	...	...	...	...	...
12/10/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLOODPC -Blood specimen	BURN ICU	NO
12/11/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLOODPC -Blood specimen	CARDIAC ICU	YES
12/12/2013	MRSA	CARD -Cardiovascular/ Circulatory/ Lymphatics	BLOODPC -Blood specimen	BURN ICU	NO
12/13/2013	...	...	...	...	...

“CHECKLIST”

For Facility-wide Inpatient MRSA Bacteremia & *C. difficile* LabID Event Reporting

- ✓ Review location options and map inpatient locations in NHSN as necessary.
- ✓ Review Monthly Reporting Plan(s) and update as necessary.
- ✓ Identify and enter all MRSA bacteremia and *C. difficile* LabID events into NHSN by location.
- ❑ Enter FacWideIN denominator data for each month under surveillance.
- ❑ Resolve “Alerts”, if applicable.

The background of the slide is a dense, overlapping pile of white paper scraps from German calendars. These scraps feature various dates and days of the week in both German and English. Visible text includes 'Ostermontag', 'Donnerstag', 'April', 'März', 'Montag', 'Sonntag', 'Freitag', 'Karfreitag', '14. Woche', '16. Woche', and the numbers '28', '4', and '25' in large, bold fonts. The scraps are scattered across the entire slide, creating a textured, chaotic background.

LabID Event Reporting Denominator Data

Denominator Data

- ❑ Denominator data must be entered each month
- ❑ Go to Summary Data > Add
- ❑ Select “MDRO/CDI ...” option as summary data type

CDC Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network | NHSN Home | My Info

Logged into DHQP Memorial Hospital (ID 10000) as MAGGIE.
Facility DHQP Memorial Hospital (ID 10000) is following the PS component.

Add Patient Safety Summary Data

Summary Data Type: MDRO and CDI Prevention Process and Outcome Measures Monthly Monitoring ▼

[Continue](#) [Back](#)

NHSN Home
Alerts
Reporting Plan
Patient
Event
Procedure
Summary Data
 ▶ Add
 ▶ Find
 ▶ Incomplete
 ▶ Delete AUR Data
Import/Export

Denominator Data

- ☐ Select “FACWIDEIN” as the Location for facility-wide inpatient reporting. **NOTE:** FACWIDEIN location is automatically available in NHSN...this location does not have to be set up
- ☐ Select appropriate month and year
- ☐ Four summary data fields will become required for FacWideIN

Facility ID*: 10000 (DHQP Memorial Hospital)

Location Code*: FACWIDEIN - FacWideIN

Month*: January

Year*: 2013

General

Setting: Inpatient Total Patient Days*: Total Admissions*:

Setting: Outpatient (or Emergency Room) Total Encounters:

If monitoring *C. difficile* in a FACWIDE location, then subtract NICU and Well Baby counts from Totals:

Patient Days*: Admissions*: Encounters:

**MRSA
Bacteremia**

C. difficile

Denominator Data

Facility ID*: 10000 (DHQP Memorial Hospital)

Location Code*: FACWIDEIN - FacWideIN

Month*: January

Year*: 2013

General

Setting: Inpatient Total Patient Days*: Total Admissions*:

Setting: Outpatient (or Emergency Room) Total Encounters:

If monitoring *C. difficile* in a FACWIDE location, then subtract NICU and Well Baby counts from Totals:

Patient Days*: Admissions*: Encounters:

MDRO & CDI Infection Surveillance or LabID Event Reporting

Specific Organism Type	MRSA	Report No Events	VRE	Report No Events	MDR-obacter	Report No Events	C. difficile	Report No Events
Infection Surveillance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LabID Event (All specimens)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	* <input checked="" type="checkbox"/>	<input type="checkbox"/>
LabID Event (Blood specimens only)	* <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

These boxes will auto-check for each event you are following "in-plan". If these boxes are not checked automatically, your data are not in-plan and will not be submitted to CMS!

**What do I put in the
box labeled
“Encounters” on the
denominator form?**



“Encounters” refers to the number of patient encounters/visits for outpatient LabID Event reporting only. It is not used for inpatient denominator counts, therefore, not used for FacWideIN reporting

Facility ID*: 10000 (DHQP Memorial Hospital)

Location Code*: FACWIDEIN - FacWideIN ▼

Month*: January ▼

Year*: 2013 ▼

General

Setting: Inpatient Total Patient Days*: Total Admissions*:

Setting: Outpatient (or Emergency Room) Total Encounters:

If monitoring *C. difficile* in a FACWIDE location, then subtract NICU and Well Baby counts from Totals:

Patient Days*: Admissions*: Encounters:

“CHECKLIST”

For Facility-wide Inpatient MRSA Bacteremia & *C. difficile* LabID Event Reporting

- ✓ Review location options and map inpatient locations in NHSN as necessary.
- ✓ Review Monthly Reporting Plan(s) and update as necessary.
- ✓ Identify and enter all MRSA bacteremia and *C. difficile* LabID events into NHSN by location.
- ✓ Enter FacWideIN denominator data for each month under surveillance.
- Resolve “Alerts”, if applicable.

“Report No Events”

- ❑ Facilities must appropriately “*Report No Events*” for those months for which no events of each type under surveillance were identified.
- ❑ If no LabID Events have been reported and this box is not checked, your data will not be submitted to CMS.

“Report No Events”

- ❑ On the MDRO and CDI Module summary data form, checkboxes for “*Report No Events*” are found underneath the patient day and admission count fields.
- ❑ If LabID events have already been reported for the specific organism, the “*Report No Events*” box will be disabled, preventing it from being checked.
- ❑ **NOTE:** If you identify and enter LabID Events for an organism after checking “*Report No Events*”, the “*Report No Events*” box will automatically uncheck.

Denominator Data – Report No Events

Facility ID*: 10000 (DHQP Memorial Hospital)
Location Code*: FACWIDEIN - FacWideIN
Month*: January
Year*: 2013

General

Setting: Inpatient Total Patient Days*: Total Admissions*:
 Setting: Outpatient (or Emergency Room) Total Encounters:

If monitoring *C. difficile* in a FACWIDE location, then subtract NICU and Well Baby counts from Totals:

Patient Days*: Admissions*: Encounters:

MDRO & CDI Infection Surveillance or LabID Event Reporting

Specific Organism Type	MRSA	Report No Events	VRE	Report No Events	MDR- Pseudomonas	Report No Events	<i>C. difficile</i>	Report No Events
Infection Surveillance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LabID Event (All specimens)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	* <input checked="" type="checkbox"/>	<input type="checkbox"/>
LabID Event (Blood specimens only)	* <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

If no LabID events have been identified for an organism, there must be verification of "Report No Events". This can be completed from the Summary Record.



Email help desk: nhsn@cdc.gov

**NHSN website:
<http://www.cdc.gov/nhsn/>**



Case Studies





Case 1

Man vs. Dog



- 3/1: 22 year old male admitted to 5 W medical unit after a panic attack following a dog bite from the family Yorkie. Pt. has history of frequent antibiotic use for chronic UTIs.
- 3/2: Wound draining small amounts of clear drainage. Pt. complains of lower abdominal cramps, relieved with medication. Panic attacks decreased to 3-4 per day.
- 3/3: Later that day, pt. has fever of 38.2°C and complains of worsening lower abdominal pain. BM with loose unformed stool. Pt. moved to 3 E to accommodate frequent bathroom visits.



Case 1

Man vs. Dog



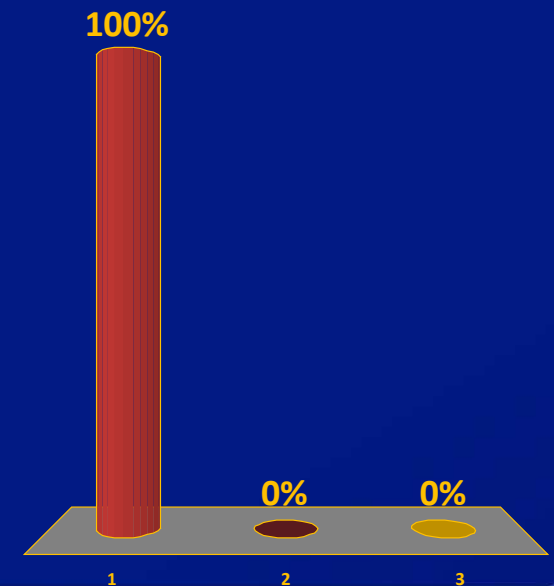
- 3/4: While on 3E, pt. continues to complain of lower abdominal pain and loose stools. Over the course of the day, the pt. had several loose stools.
- 3/5: Unformed stool tested positive for C. difficile toxin.



Case 1

For FacWideIN LabID reporting, should this be entered as a *C. difficile* LabID Event?

1. No. His symptoms started on admission to the hospital.
- ✓ 2. Yes. This is the first toxin positive *C. difficile* isolate collected for this patient and location (*no previous positive within 14 days for location*).
3. No. Enter this as a GI Event for this patient.





Case 1

**#2..YES- This is a
C. difficile LabID Event
and should be entered into NHSN**

A toxin positive *C. difficile* stool specimen for a patient in a location with no prior *C. difficile* specimen result within 14 days for the patient and the location



Case 1

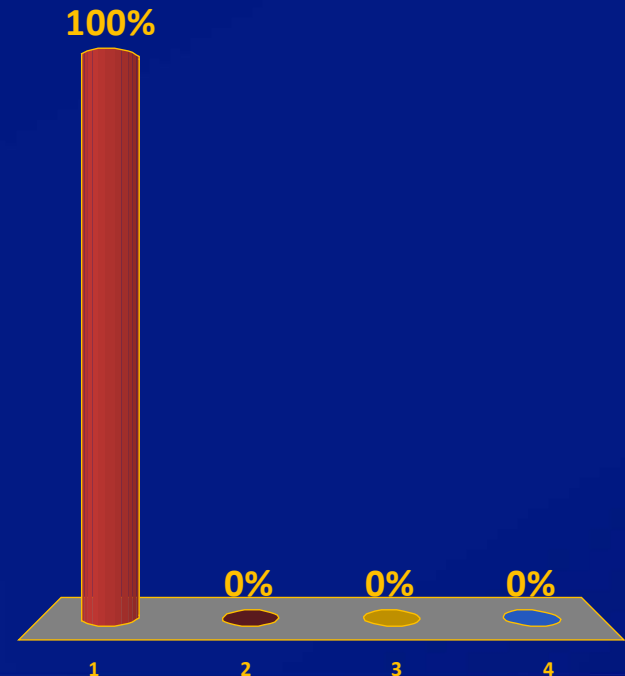
What Location is the LabID Event Attributed?

1. ICU

✓ 2. 3E

3. Lab

4. FacWideIN





Case 1

#2...3E



Location attribution is based solely on where the patient was assigned when the specimen was collected. There is no thought process or subjective decisions allowed for location attribution for LabID event reporting.

****NHSN “transfer rule” does NOT apply for LabID Events**



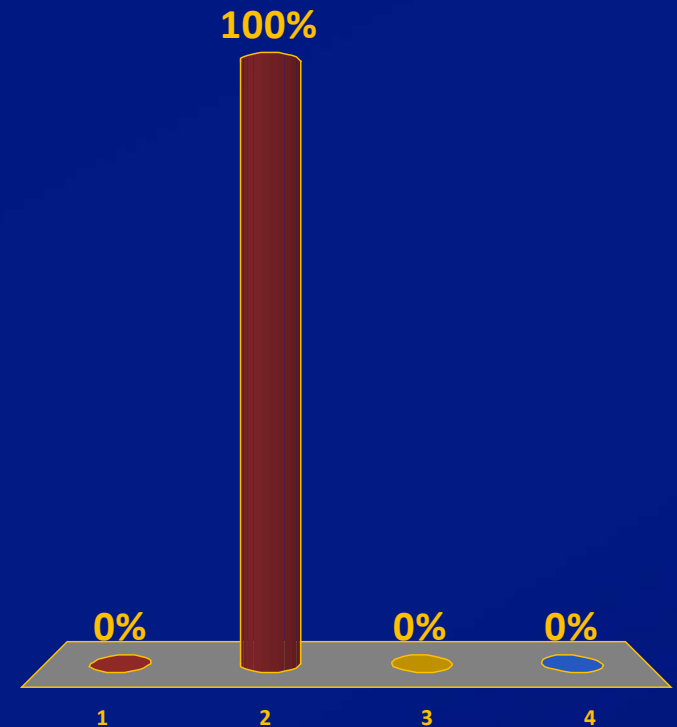
Case 1

How Will this Event be Categorized?



(Hint: admission on 3/1; specimen collection on 3/4)

1. Community-Onset (CO)
- ✓ 2. Healthcare Facility-Onset (HO)
3. Community-Onset Healthcare Facility-Associated (CO-HCFA)
4. As funny





#2....Healthcare Facility-Onset (HO)

REMEMBER:

LabID Events are categorized based on the date of specimen collection and the date of admission.



Case 2

Man vs. Buffet *or is it???*



3/1: Pt. presents to the emergency department (ED) with complaints of diarrhea and lower abdominal pain for the past two days. Pt. states that he has been on antibiotics for 5 days for treatment of an UTI, but he also ate fresh fruit from a buffet 3 days ago and believes that he has food poisoning. Pt. is hypotensive and has poor skin turgor. A stool specimen collected in the ED tests toxin positive for *C. difficile*; negative for Salmonella and other enteric pathogens.

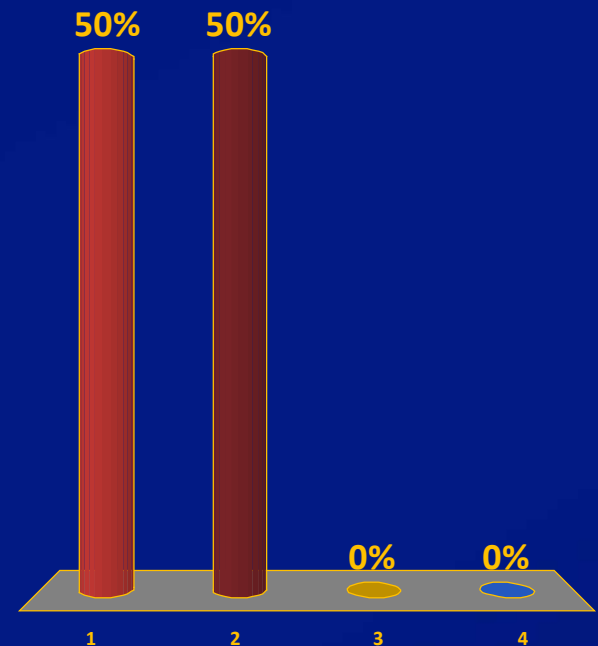
3/1: Patient admitted to 2S medical unit for intravenous hydrations and medical management.

Case 2

For FacWideIN LabID Event reporting, can this result be entered as a LabID Event and if so, what location would be entered?



1. No. ED is an outpatient location and I am only monitoring inpatient locations.
2. Yes. Location would be the ED since specimen was collected there.
3. Yes. Location would be 2S, the admitting location.
4. Yes. Location would be FacWideIN.





Case 2

#3...YES, 2S




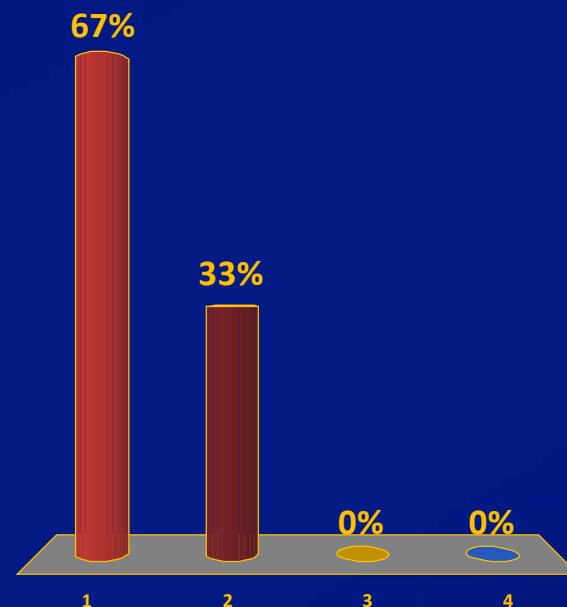
If a specimen collected in the facility's emergency department is positive for *C. difficile*, and the patient is subsequently admitted into an inpatient unit on the SAME calendar day, then that specimen can be reported as the first specimen for the patient in that ADMITTING INPATIENT LOCATION



Case 2

What if you are participating in both FacWideIN and ED location specific reporting?

1.  Report the positive CDI LabID Event separately, once for ED and again for 2S.
2. Report only as FacWideIN.
3. Report only as FacWideOUT.
4. Toss a coin to make location selection.





Case 2



#1..Report in both places

If your monthly reporting plan includes both FacWideIN and ED location specific reporting, then you should report the positive CDI LabID Event separately, once as 2S (*select NO for outpatient*) and then again for ED (*select YES for outpatient*).

Event Information [HELP](#)

Event Type*: LABID - Laboratory-identified MDRO or CDI Event

Date Specimen Collected*: 02/11/2011

Specific Organism Type*: CDIF - C. difficile

Outpatient*: N - No

Specimen Body Site/Source*: DIGEST - Digestive System

Specimen Source*: STOOL - Stool specimen

Date Admitted to Facility*: 01/29/2010

Location*: 2S

Date Admitted to Location*: 02/10/2011

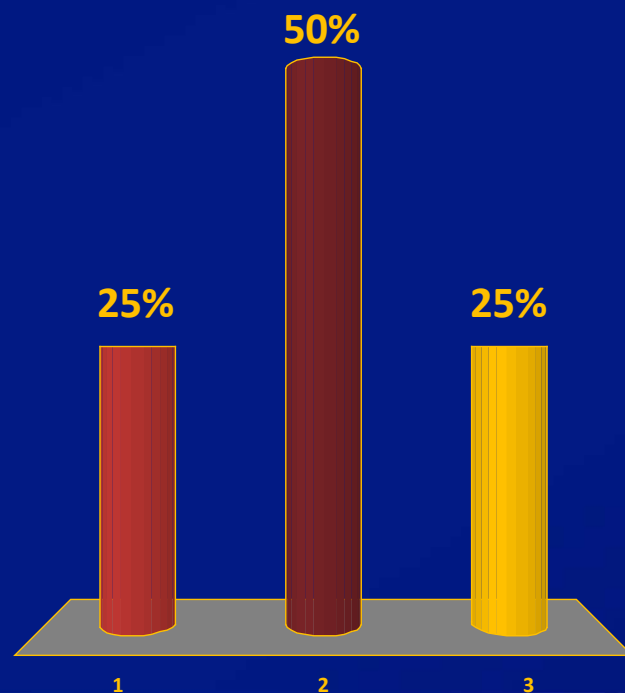
Documented prior evidence of previous infection or colonization with this specific organism type from a previously reported LabID Event?: N - No

Has patient been discharged from your facility in the past 3 months?*: N - No

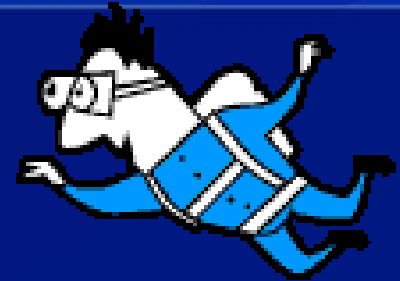
Case 2

What if the specimen was collected in the ED on 3/1/14 and the patient was admitted, but he was not physically moved into an inpatient unit until the early morning of 3/2/14?

1. Change the specimen collection date to match the physical admission date so the application will accept the LabID Events
2. Do not enter the LabID Event for FacWideIN reporting since the specimen collection and physical admission dates are different
3. Enter the specimen as a LabID Event since the dates match in the computer.



Case 3




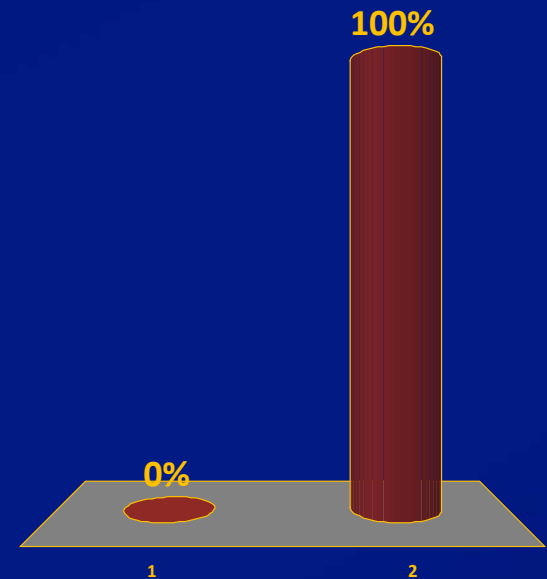
- 2/15: 85 year old patient admitted to inpatient unit, 3E, from rehab facility. The patient was discharged from your facility 2-weeks ago after spending 3 weeks in the ICU after a sky diving incident.
- Upon admission to 3E, patient is noted to have foul loose stools.
- 2/16: After three episodes of loose stools over the course of 24 hours, an unformed specimen was collected and tested positive for *C. difficile* toxin.

Case 3



For FacWideIN LabID reporting
Should this be entered into NHSN as
a LabID Event?

1.  YES. Specimen was collected from 3E inpatient location.
2. NO. This infection belongs to the Hospice.





Case 3

YES... This is a CDI LabID Event and should be entered into NHSN

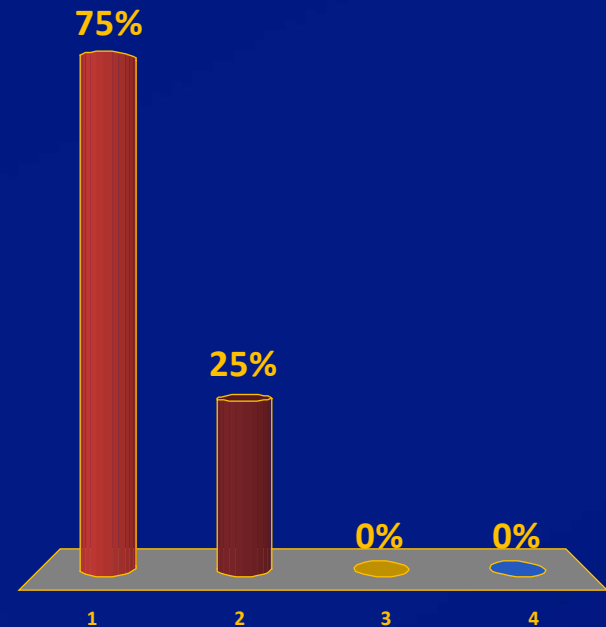
A toxin positive *C. difficile* stool specimen for a patient in a location with no prior *C. difficile* specimen result within 14 days for the patient and the location. Both community-onset and healthcare-onset events should be reported.

Recommend the use of “Optional Field” to document history of rehab for internal tracking purposes

Case 3

How will NHSN Categorize the CDI Event?

1. Community-onset (CO)
2. Healthcare-Facility onset (HO)
3. ✓ Community-Onset Healthcare Facility-Associated (CO-HCFA)
4. NHSN will not categorize the event, the user will need to make the decision





Case 3

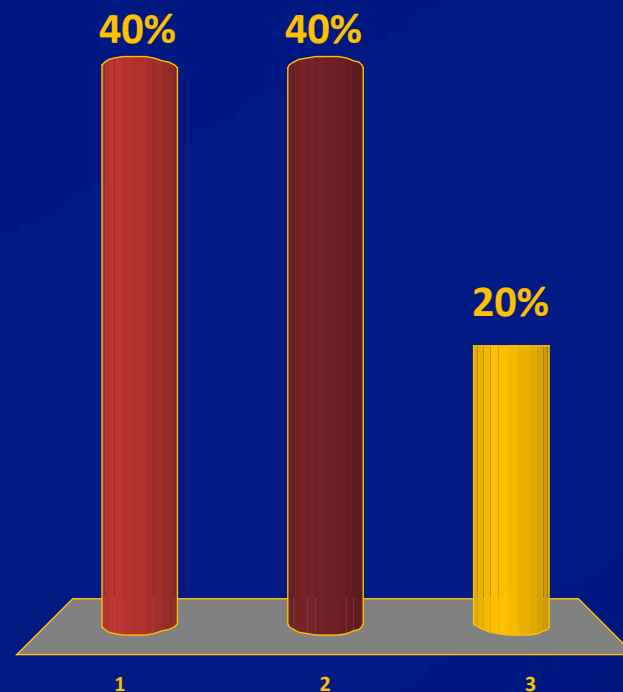
#3.. Community-Onset Healthcare Facility- Associated (CO-HCFA)

This patient was previously discharged from your facility ≤ 4 weeks prior to current date of stool specimen collection and the stool specimen was collected less than 4 days after admission to the facility

Case 3

What categorization would the application assign if the stool specimen was collected 4 days after admission to the hospital?

1. Community-onset (CO) since the patient was admitted with symptoms of foul stool
2. Healthcare-Facility onset (HO)
3. Community-Onset Healthcare Facility-Associated (CO-HCFA) since the patient was admitted from another healthcare facility



Case 3



#2..Healthcare Facility Onset (HO)

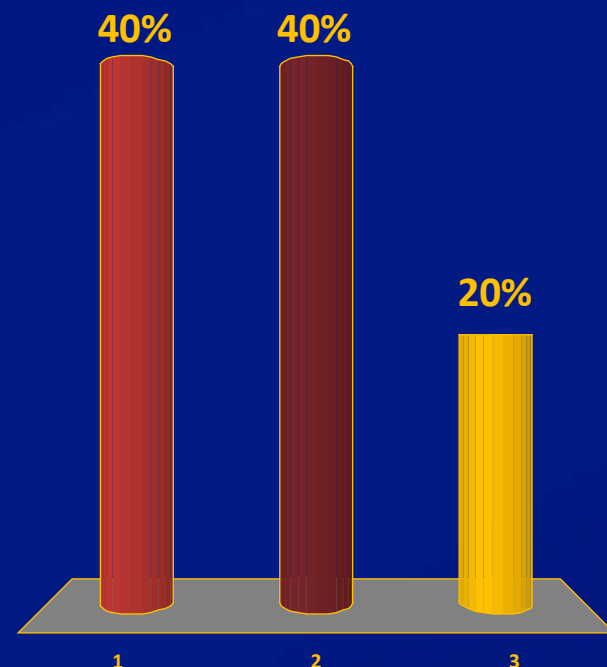
Healthcare Facility Onset (HO) since the stool was collected more than 3 days after admission.

Case 4

What if a patient with no previous admission to your facility presents with symptoms of diarrhea and fever on admission, but the *C. difficile* toxin was negative on admission and subsequently positive on day 4 of admission?



1. I can over-ride NHSN and categorize the event as community-onset since patient was symptomatic on admission.
2. NHSN will categorize as community-onset (CO).
3. ✓ NHSN will categorize as healthcare facility-onset (HO)





Case 4

#3..Healthcare-Onset

NHSN would still categorize the event as healthcare-onset since the first positive stool specimen was collected on or after day 4 of admission

****Lab ID Event reporting is a proxy measure to lighten the load of surveillance, but this reduction in burden is traded off with a decreased specificity as it relates to true infection and attribution**



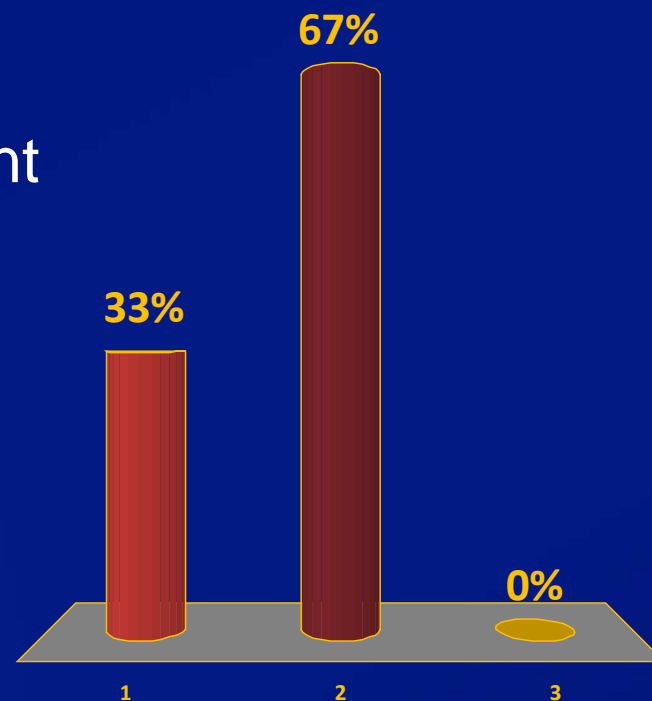
Reminder!



Case 5

If your hospital is participating in the CMS Inpatient Quality Reporting (IQR) Program, which locations must you select when setting up your monthly reporting plan for *C. difficile* LabID Event reporting?

1. ✓ FacWideIN
2. Emergency department, outpatient surgery, and affiliated physician offices.
3. FacWideOUT, which includes all outpatient locations affiliated with the facility.





Case 5

#1.....FacWideIN

CMS requires acute care facilities to report *C. difficile* LabID Events for all inpatient locations (FacWideIN) where stool specimens may be collected. This excludes locations known to predominantly house babies.

NHSN Home
Reporting Plan
Add
Find
Patient
Event
Procedure
Summary Data
Import/Export
Analysis
Surveys
Users
Facility

Logged into DHQP Memorial Hospital (ID 10000) as ANGELA.
Facility DHQP Memorial Hospital (ID 10000) is following the PS component.

Add Monthly Reporting Plan

☒ No data found for January, 2013

Mandatory fields marked with *

Facility ID*:

Month*:

Year*:

☐ No NHSN Patient Safety Modules Followed this Month

Multi-Drug Resistant Organism Module [HELP](#)

Locations

Specific Organism Type

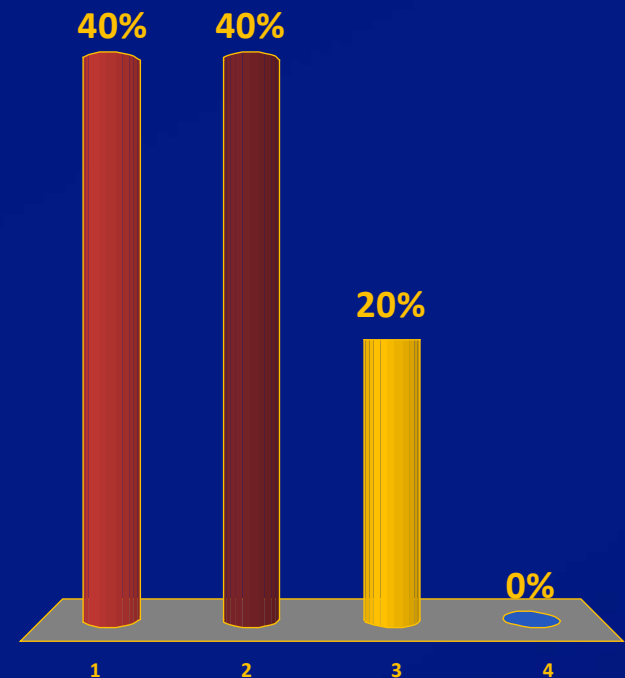
Process and Outcome Measures

Infection Surveillance	AST-Timing	AST-Eligible	Incidence Prevalence	Lab ID Event All Specimens	Lab ID Event Blood Specimens Only	HH	GG
<input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Case 6

What monthly denominator data is entered for *C. difficile* LabID Event reporting for FacWideIN?

1. Patient admissions by each unit and total patient days by unit.
- ✓ 2. *C. difficile* patient days and admissions for all inpatient locations minus NICU, SCN, and Well Baby location counts, including babies in LDRP locations.
3. Total patient days and total admissions for all inpatient locations.
4. Total patient encounters.



**#2....Patient days and admissions
for all inpatient locations minus
NICU, SCN, and Well Baby
locations**

[illegible]

Case 7



- 6/15: 90 year old patient admitted from the emergency department (ED) to ICU following a pogo stick accident. A Foley and central line inserted and patient scheduled for emergent surgery for pelvic fracture. Pt. with multiple lacerations.
- 6/16: Pt. spikes a fever of 101⁰F and urine draining cloudy drainage in bedside bag. A urine culture is collected.
- 6/18: Urine culture results are positive for *E. coli* and MRSA. Antibiotic treatment begun.

Case 7



- 6/21: Patient continues to have fever of 101.4°F. Blood cultures collected from peripheral IV site.
- 6/22: Two of two blood cultures are positive for MRSA.

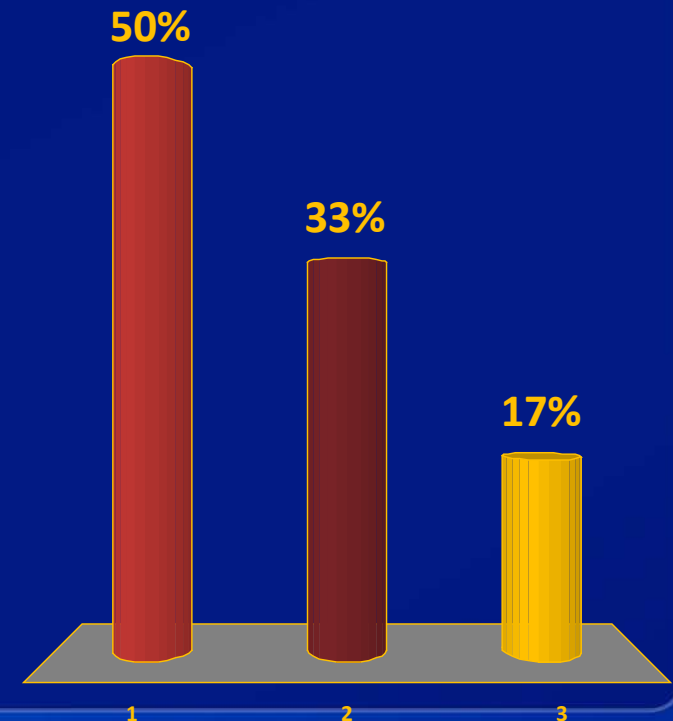


Case 7



Since your facility participates in MRSA bacteremia LabID Event Reporting for FacWideIN, would you report this positive blood culture as a LabID Event?

1. No. Since the patient already had a positive urine culture with MRSA for this month and location, the MRSA blood is considered a duplicate.
2. Yes. This is considered a unique blood source.
3. No. This is a CLABSI!!





Case 7



YES

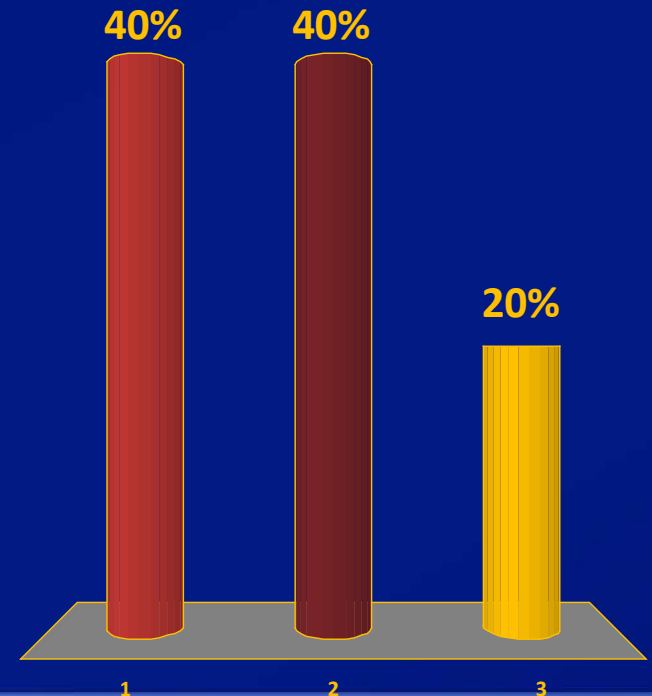
**This is considered a MRSA bacteremia
LabID Event since the patient has no
prior positive blood culture for MRSA
in this location in ≤ 2 weeks**

Case 7

What if the patient had a previous positive MRSA blood culture 3 days prior to this culture while in the same location (ICU)?



1. This would be a duplicate MRSA isolate and NOT a MRSA bacteremia LabID Event.
2. I would report as a MRSA bacteremia LabID Event.
3. I would report as an Infection Surveillance Event .



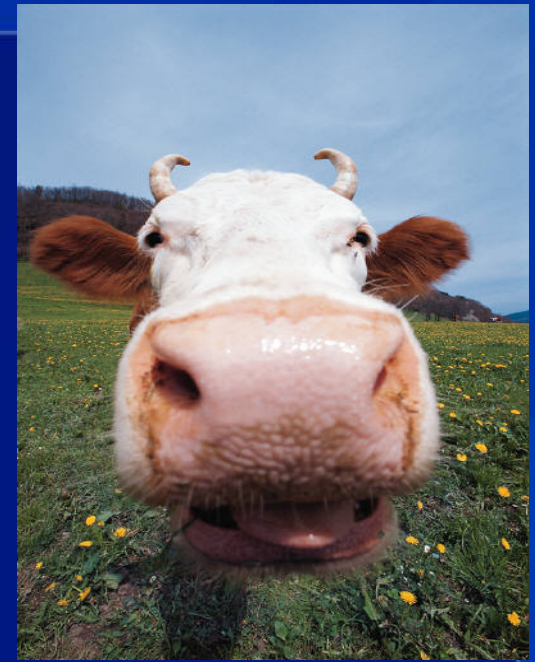
Case 7



A prior + MRSA blood culture result in \leq 2 weeks from same patient and same location (including across calendar month) is considered a duplicate MRSA isolate and should NOT be reported as a LabID Event



Case 8



6/1: Mr. Nasal, a local nursing home resident, is admitted to the ICU with a stage 4 sacral ulcer. Upon admission into the ICU, an active nasal screen tested positive for MRSA. Blood cultures were also collected upon admission to the ICU.



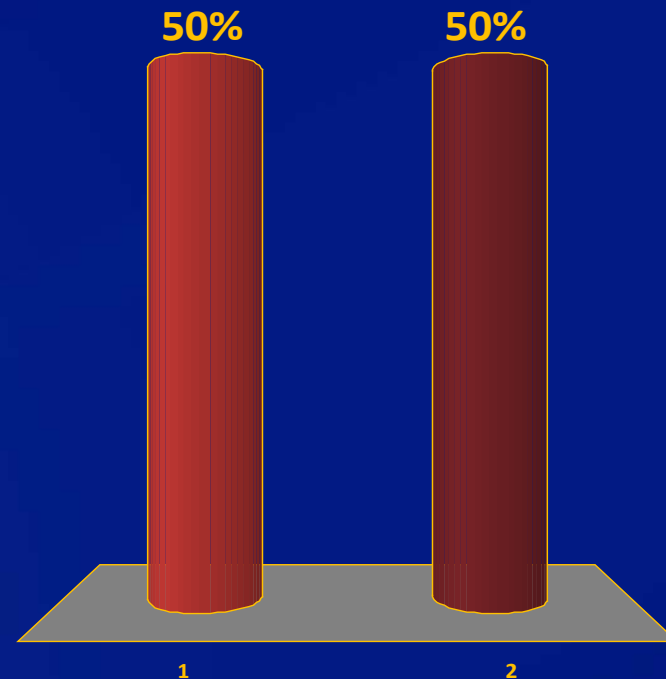
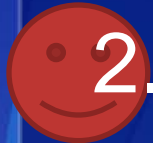
Case 8



Should this positive MRSA nasal screen be entered into NHSN as a MRSA LabID Event?

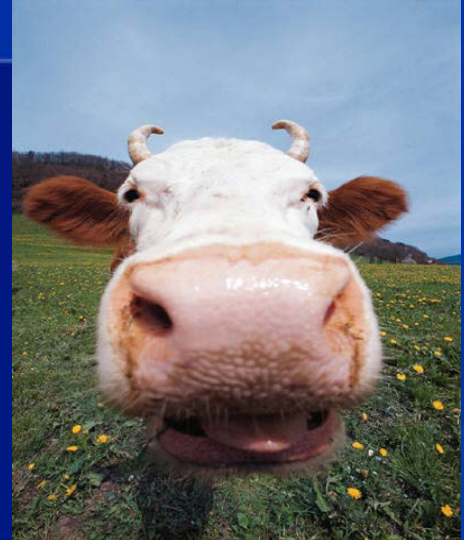
1. YES.

2. NO.





Case 8



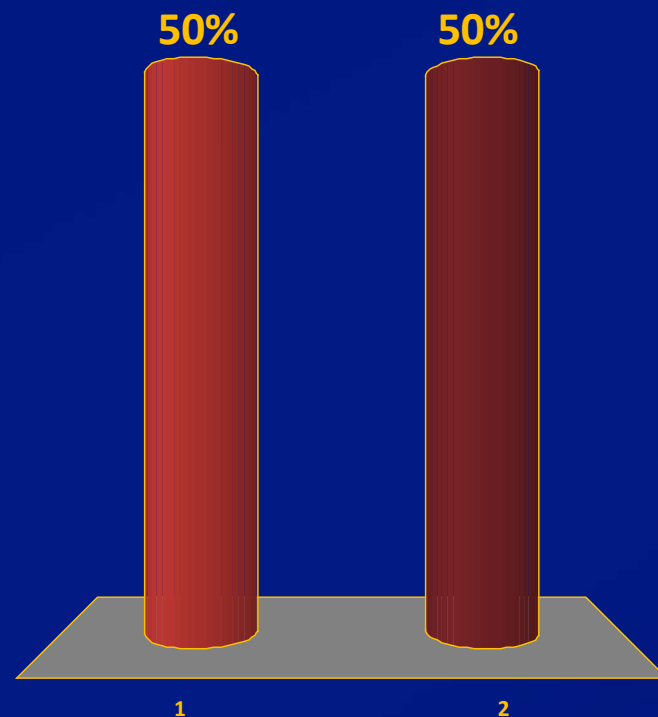
NO
MDRO/MRSA LabID Event Reporting
EXCLUDES tests related to active
surveillance testing



Case 8

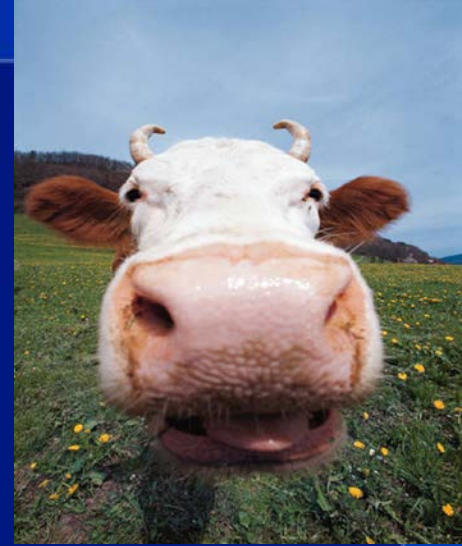
What if the blood culture also tested positive for MRSA?

1. NO. I would not consider this to be a MDRO LabID Event since the patient had a MRSA positive nasal screen.
- ★ 2. YES. Since the blood culture was obtained for clinical decision making, I would report this as a MRSA bacteremia LabID Event.





Case 8

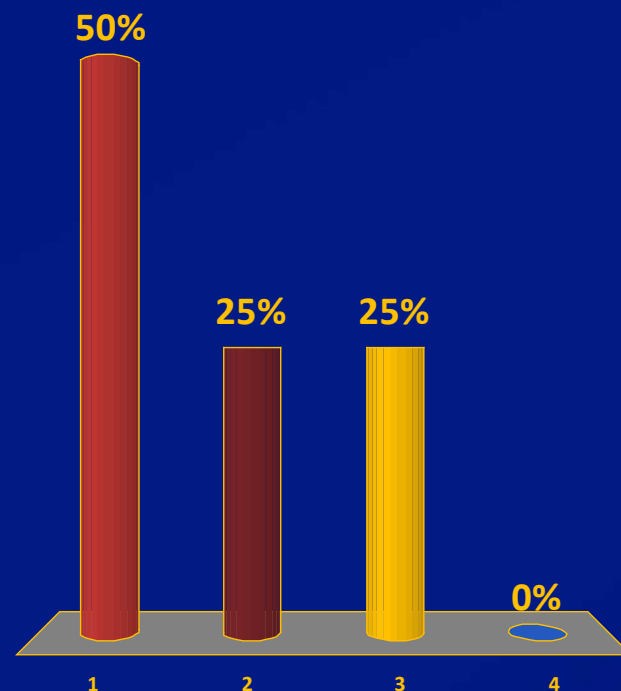


Since this was the first positive MRSA blood culture for this patient and location (ICU), this would be considered a MRSA Bacteremia LabID Event.

Case 9

What denominator data is entered for MRSA Bacteremia LabID Event Monitoring for FacWideIN?

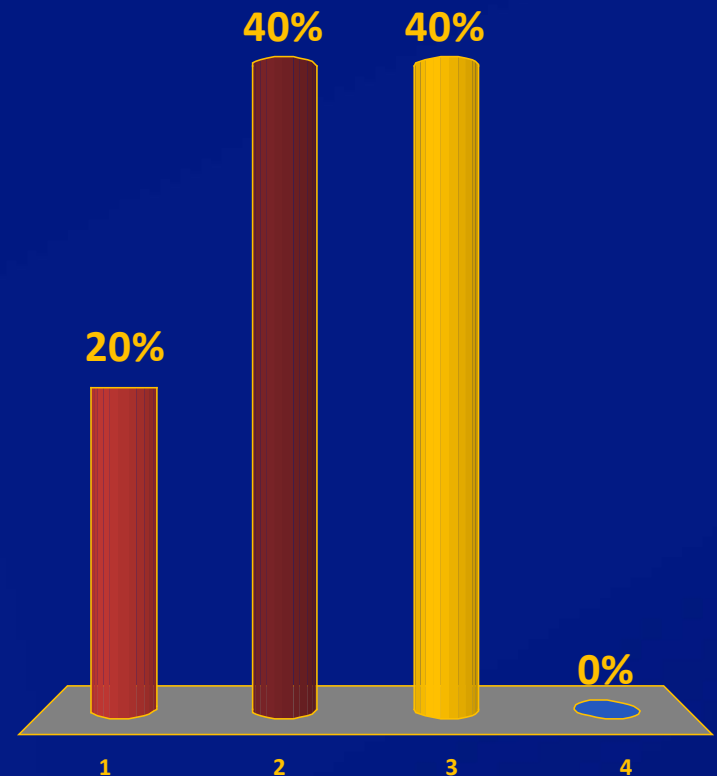
1. Total Patient Admissions by each unit and Total Patient Days by unit.
2. Patient Days and Admissions for all inpatient locations minus NICU and Well Baby location counts (at facility-wide level).
3. Total Patient Days and Total Admissions for all inpatient locations (at facility-wide level).
4. Total Patient Encounters.



Case 10

If your hospital is participating in the CMS Inpatient Quality Reporting (IQR) Program, which locations must you include in your monthly reporting plan for MRSA Bacteremia LabID Event reporting?

1. ICU, NICU, medical-surgical units, emergency department, oncology.
2. ✓ FacWideIN, which includes all inpatient locations.
3. FacWideIN, which includes all inpatient locations, except no monitoring in NICU and Well Baby locations.
4. FacWideOUT, which includes all outpatient locations affiliated with the facility.



Case 10

#2.....FacWideIN

Acute care hospital reporting to CMS via NHSN requires to report MRSA Bacteremia LabID Events for all inpatient locations at the facility-wide inpatient level

NHSN Home
Reporting Plan
Add
Find
Patient
Event
Procedure
Summary Data
Import/Export
Analysis
Surveys
Users
Facility

Logged into DHQP Memorial Hospital (ID 10000) as ANGELA.
Facility DHQP Memorial Hospital (ID 10000) is following the PS component.

Add Monthly Reporting Plan

☒ No data found for January, 2013

Mandatory fields marked with *

Facility ID*:

Month*:

Year*:

☐ No NHSN Patient Safety Modules Followed this Month

Multi-Drug Resistant Organism Module HELP

Locations	Specific Organism Type
FACWIDEIN - FacWideIN	MRSA - MRSA

Process and Outcome Measures

Infection Surveillance	AST-Timing	AST-Eligible	Incidence	Prevalence	Lab ID Event All Specimens	Lab ID Event Blood Specimens Only	HH	GG
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>




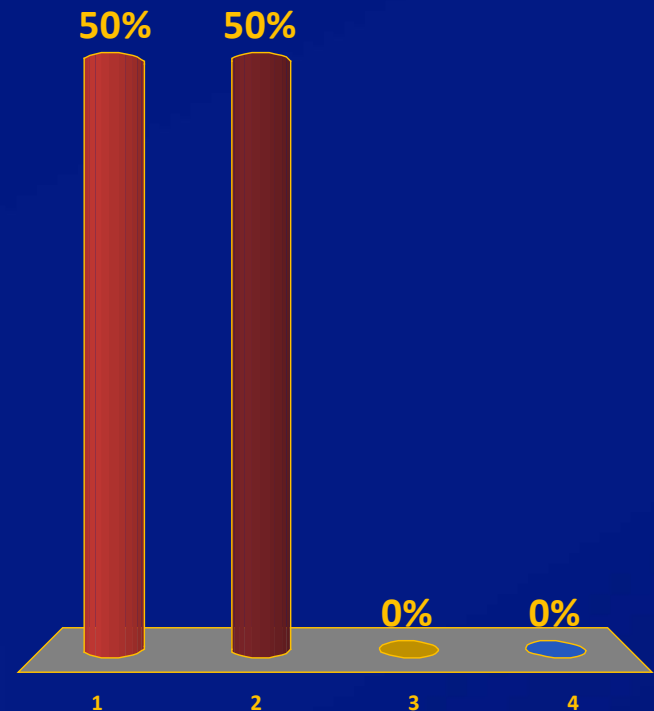
FacWideIN is a 'virtual' location within NHSN, which means the user does not define it like other specific units/locations, and it is only used in the Monthly Reporting Plan, Summary Data Reporting Form (denominator), and for Conferring Rights.

Case 11



A positive MRSA blood specimen collected from an inpatient on day 4 of admission would be categorized as:

- 
1. Healthcare Facility-Onset (HO)
 2. Community-Onset (CO)
 3. Community-Onset Healthcare Facility-Associated (CO-HCFA)
 4. It depends on the patient's history



Case 11



#1..Healthcare Facility-Onset (HO)


NHSN Categorizes MRSA Bacteremia LabID Events Based on Date Admitted to Facility and Date Specimen Collected

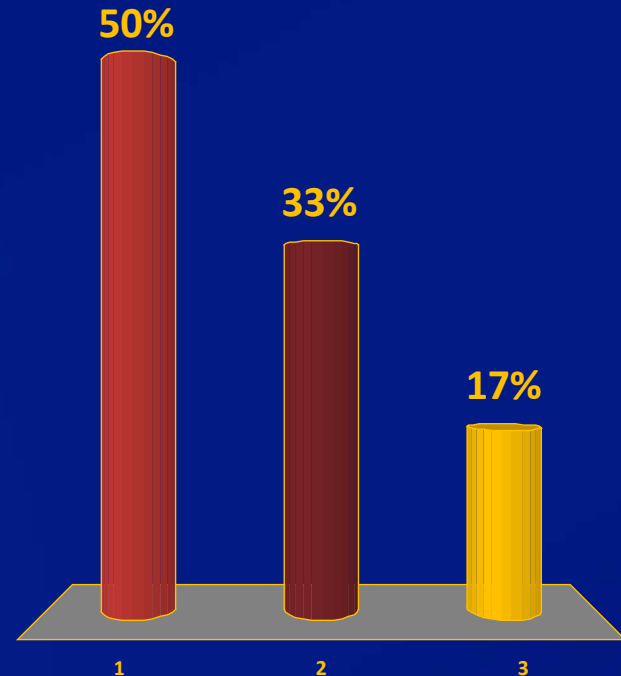
- **Healthcare Facility-Onset (HO):** LabID Event collected **> 3 days after admission to the facility (i.e., on or after day 4)**
- **Community-Onset (CO):** LabID Event collected as an outpatient or an inpatient **≤ 3 days after admission to the facility (i.e., days 1, 2, or 3 of admission)**

Case 11



What if the patient was symptomatic for sepsis on admission, but the blood culture was not collected until day 4 of admission?

1. I can over-ride NHSN and categorize the event as community-onset.
2. NHSN will categorize as community-onset.
3.  NHSN will categorize as healthcare facility-onset.



Case 11

#3..Healthcare-Onset

NHSN would still categorize the event as healthcare-onset since the first positive blood specimen was collected on or after day 4 of admission

**Lab ID Event reporting is a proxy measure to lighten the load of surveillance, but this reduction in burden is traded off with a decreased specificity as it relates to true infection and attribution



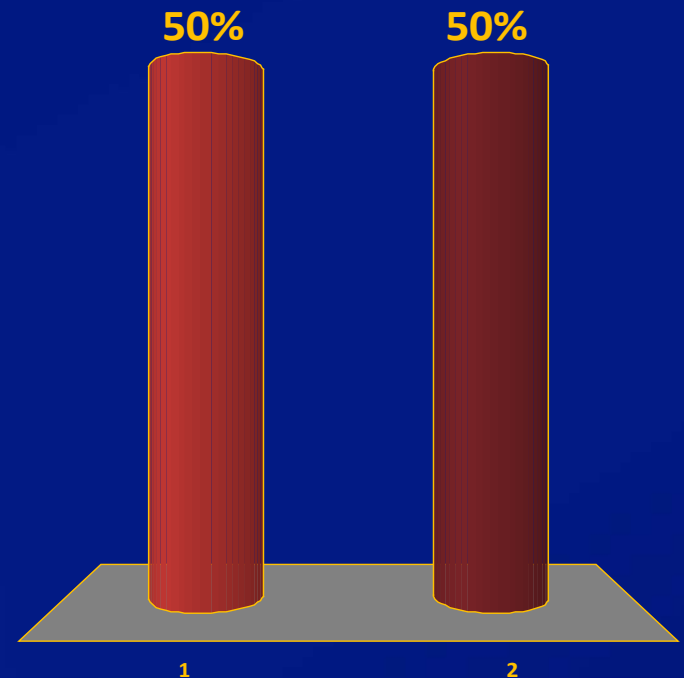
Reminder!



Case 12

For **FacWideIN** reporting: Should LabID Events be reported to NHSN for patients housed in Observation locations?

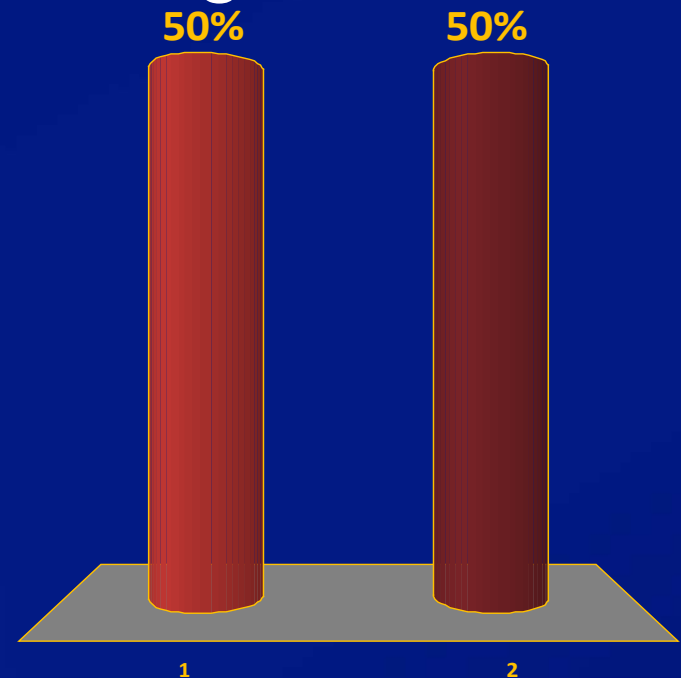
1. YES.
- ✓ 2. NO.



Case 12

Are patients housed in Observation locations included in patient day and admission counts for **FacWideIN** reporting?

1. YES.
- ✓ 2. NO.



Case 12

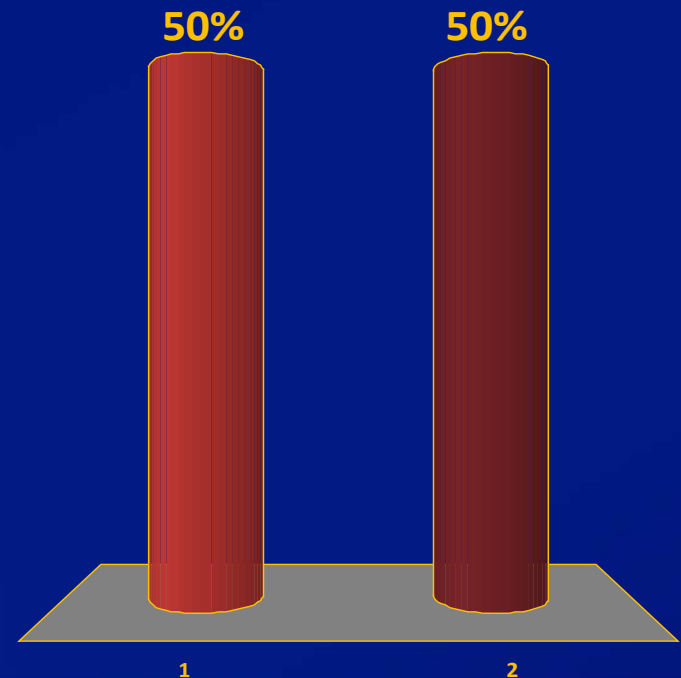
Observation patients in observation locations:

An “**observation**” location (e.g., 24-hour observation area) is considered an **outpatient unit**, so time spent in this type of unit does not ever contribute to any inpatient counts (i.e., patient days, device days, admissions). Admissions to such outpatient units represent “encounters” for the purposes of outpatient surveillance for LabID Event monitoring in the MDRO/CDI module

Case 13-new

Are Observation patients housed in inpatient locations included FacWideIN LabID Event reporting?

- ✓ 1. YES.
- 2. NO.



Case 13

If an observation patient is sent to an inpatient location for monitoring, the patient should be included for all inpatient and device day counts. The facility assignment of the patient as an observation patient or an inpatient has no bearing in this instance for counting purposes, since the patient is being housed, monitored, and cared for in an inpatient location.



Case 14: Meet Tim

Assume all specimens collected are shown

Pt	Admit Date/ Location	Specimen Collection Date/Loc	Specimen Source	Lab Result	LabID Event? location?	Explanation
1	Tim 6/1/12 ICU	6/1/12 ED	Stool	C. diff + toxin	YES ICU	Specimen collection date = admission date
2	Tim 6/1/12 ICU	6/2/12 ICU	Blood	MRSA	YES ICU	1 st MRSA + Blood in location (ICU)
3	Tim 6/1/12 ICU	6/12/12 ICU	Blood	MRSA	NO	≤ 14 days from previous specimen in location
4	Tim 6/1/12 ICU	6/20/12 ICU	Blood	MRSA	NO	≤ 14 days from previous specimen in location
5	Tim 6/1/12 ICU	7/10/12 ICU	Blood	MRSA	YES ICU	>14 days previous specimen in location
6	Tim 6/1/12 ICU	7/15/12 2 East	Blood	MRSA	YES 2 East	NEW location

Case 15

Identify the LabID Events

	Pt	Admit Date/ Location	Specimen Collection Date/Loc	Specimen Source	Lab Result	LabID Event? Location?	Explanation
1	Bill	6/15/12 CCU	6/16/12 CCU	Blood	MRSA	YES/ CCU	1st MRSA + blood in location (CCU)
2	Bill	6/15/12 CCU	6/20/12 3-East	Blood	MRSA	YES 3-East	NEW location
3	Lily	7/2/12 ICU	7/1/12 ED	Stool	C. diff + toxin	NO	Specimen collected before admit date
4	Lily	7/2/12 ICU	7/6/12 ICU	Stool	C. diff + toxin	YES / ICU	≤ 14days previous spec (inpt location)
5	Lily	7/2/12 ICU	7/10/12 2-West	Stool	C. diff + toxin	YES / 2-West	NEW location
6	Joe	6/1/12 ICU	6/6/12 ICU	Stool	C. diff equiv toxin	NO	Must be toxin + +PCR = toxin +

Assume all specimens collected are shown

Case 16

Identify the LabID Events

	Pt	Admit Date/ Location	Specimen Collection Date/Loc	Specimen Source	Lab Result	LabID Event? Location?	Explanation
1	Jim	8/2/12 CCU	8/2/12 CCU	Blood	MRSA	YES/CCU	1 st MRSA blood for location
2	Jim	8/2/12 CCU	8/6/12 CCU	Blood	MRSA	NO	≤ 14 days previous specimen/location
3	Sam	7/2/12 ICU	7/9/12 ICU	Stool	C. diff +antigen - toxin	NO	Must be toxin + **+PCR = toxin +
4	Tim	7/2/12 NICU	7/6/12 NICU	Stool	C. diff +toxin	NO	NICU excluded
5	Paul	8/2/12 M/S	8/5/12 M/S	Blood	MRSA	YES M/S	1 st MRSA blood for location
6	Paul	8/5/12 ICU	8/5/12 ICU	Blood	MRSA	YES/ICU	1 st MRSA blood for location

Assume all specimens collected are shown

THANK YOU!

